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MASSACHUSETTS
COMMISSION FOR THE BLIND
1987

REPORT OF THE REGISTER

GOVERNMENT DOCUMENTS
1987
1983



CHARLES H. CRAWFORD
COMMISSIONER

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INTRODUCTION

THE 1987 REPORT OF THE REGISTER COVERS THE PERIOD JANUARY 1 - DECEMBER 31, 1987. THIS REPORT PRESENTS STATISTICS FOR THE TOTAL AND NEWLY REGISTERED BLIND POPULATION ON THE FOLLOWING CHARACTERISTICS:

- TOTAL POPULATION
- REGIONAL DISTRIBUTIONS
- AGE DISTRIBUTIONS
- DIAGNOSES
- ETIOLOGIES
- VISUAL ACUITY
- RACE/ETHNIC DISTRIBUTIONS
- REMOVALS

IN ADDITION, THE REPORT INCLUDES A BRIEF REVIEW OF THE NEWLY REGISTERED POPULATION RESIDING IN NURSING HOMES AT THE TIME OF REGISTRATION.

TOTAL POPULATION

THE 1987 REGISTER OF THE MASSACHUSETTS COMMISSION FOR THE BLIND REPRESENTS A TOTAL OF 26,710 LEGALLY BLIND PERSONS. THIS TOTAL REFLECTS AN OVERALL INCREASE OF 2.5 PERCENT. THE REGIONAL DISTRIBUTION OF THE TOTAL REGISTER REMAINS BASICALLY THE SAME AS IN PREVIOUS YEARS. REGION IV REPRESENTS THE LARGEST OR 23.2 PERCENT AND REGION II THE SMALLEST OR 11.4 PERCENT OF THE TOTAL BLIND POPULATION. THE RATE OF INCREASE WAS THE LOWEST, 0.5 PERCENT IN REGION III AND THE HIGHEST, 4.3 PERCENT IN REGION V.

REGIONAL DISTRIBUTION OF 1987 REGISTRATIONS

THE NUMBER OF NEW REGISTRATIONS REPRESENTS A 3.1 PERCENT INCREASE OVER THE 1986 NEW REGISTRATIONS, WITH REGION I ACCOUNTING FOR THE LARGEST REGIONAL INCREASE OF 11.1 PERCENT.



THE NUMBER OF NEW REGISTRATIONS INCREASED IN FIVE OF THE SIX REGIONS, WITH ONLY REGION II RECEIVING FEWER NEW REFERRALS IN 1987 THAN IN 1986.

AGING TREND

THE AGING FACTOR CONTINUES TO BE A NOTABLE CHARACTERISTIC OF BOTH THE TOTAL AND NEW REGISTRATIONS WITH PERSONS AGES 65 AND OVER REPRESENTING 65.1 AND 73 PERCENT OF THE TOTAL AND NEW REGISTRATIONS RESPECTIVELY. IN COMPARISON TO THE TOTAL BLIND POPULATION, THE AGING TREND IS EVEN GREATER AMONG NEW REGISTRANTS AS EVIDENCED BY THE FACT THAT 59.1 PERCENT OF THIS GROUP WERE AGES 75 AND OVER AND 44.3 PERCENT AGES 80 AND OVER AT THE TIME OF INITIAL REGISTRATION.

A COMPARISON OF THE AGE DISTRIBUTION OF THE NEWLY REGISTERED IN 1986 AND 1987 REVEALS A SIGNIFICANT DECREASE OF 24.1 PERCENT IN THE AGE GROUP 0 - 6. THE LARGEST INCREASE, 4.8 PERCENT, IS FOUND IN THE AGE GROUP 85 AND OVER. WITH THE EXCEPTION OF THE 65 - 74 AGE GROUP, WHICH SHOWED A SLIGHT DECREASE, ALL OTHER AGE CATEGORIES SHOWED AN INCREASE OVER THE PREVIOUS YEAR.

REGIONAL AGE DISTRIBUTION - NEW REGISTRATIONS

THE REGIONAL AGE DISTRIBUTION OF THE 1987 REGISTRATIONS INDICATES THAT REGION III REPRESENTS APPROXIMATELY ONE QUARTER OF THE 131 NEWLY REGISTERED BLIND CHILDREN AGES 0 - 14 YEARS. REGION IV ACCOUNTS FOR THE LARGEST PROPORTION THE OTHER AGE CATEGORIES: 20.9 PERCENT IN AGES 14 - 64 AND 23 PERCENT IN THE GROUP AGES 65 AND OVER.

DIAGNOSES

THE CONTINUING INCREASE IN THE ELDERLY BLIND POPULATION IS ALSO REFLECTED IN THE DIAGNOSES REPORTED AMONG THE TOTAL AND NEWLY REGISTERED. DIAGNOSES RELATED TO THE AGING PROCESS

(MACULAR DEGENERATION, CATARACTS AND CATARACTS WITH RETINAL AFFECTION) REPRESENT 42 AND 51 PERCENT OF THE TOTAL AND NEW REGISTRATIONS RESPECTIVELY.

DIABETIC RETINOPATHY CONTINUES TO BE A PRIMARY DIAGNOSIS AMONG BOTH THE TOTAL AND NEWLY REGISTERED, REPRESENTING 8.8 AND 10 PERCENT RESPECTIVELY. DIABETIC RETINOPATHY ALSO CONTINUES TO BE THE MOST FREQUENTLY REPORTED DIAGNOSIS AMONG NEW REGISTRANTS AGES 23 - 64, ACCOUNTING FOR 27.3 PERCENT OF THE NEWLY REGISTERED WITHIN THIS AGE GROUP.

MULTIPLE CONGENITAL OCULAR MALFORMATIONS AND AFFECTIONS OF THE OPTIC NERVE AND OPTIC PATHWAY TOGETHER REPRESENT 58.8 PERCENT OF THE DIAGNOSES REPORTED AMONG NEW REGISTRANTS 0 - 22 YEARS OF AGE. THESE DIAGNOSES ARE OFTEN ASSOCIATED WITH BIRTH DEFECTS, DISEASES OF THE CENTRAL NERVOUS SYSTEM OR OTHER SUCH DISORDERS AND THEREFORE INDICATE THE HIGH PERCENTAGE OF CHILDREN AND YOUNG ADULTS WITH MULTIPLE DISABILITIES BEING REGISTERED WITH THE COMMISSION FOR THE BLIND.

ETIOLOGIES

TWO CLASSIFICATIONS CONTINUE TO REPRESENT 90 PERCENT OF ALL CAUSES OF BLINDNESS REPORTED IN 1987. THE FIRST, DISEASES AND DISORDERS NOT ELSEWHERE CLASSIFIED, INCLUDES ETIOLOGIES ATTRIBUTED TO SENILE DEGENERATION. OTHER ETIOLOGIES WITHIN THIS CLASSIFICATION INCLUDE DIABETES MELLITUS, MULTIPLE SCLEROSIS AND A VARIETY OF OTHER DISEASES. THE SECOND MAJOR CLASSIFICATION, ETIOLOGY INDEFINITE OR NOT REPORTED, IMPLIES A LACK OF DIAGNOSIS, BUT THIS IS NOT ALWAYS THE CASE. THIS CATEGORY INCLUDES SUCH DIAGNOSES AS GLAUCOMA, DETACHED RETINA, CERTAIN MULTIPLE AFFECTIONS, ETC. FOR WHICH THE EXACT ETIOLOGY IS EITHER UNKNOWN TO SCIENCE OR NOT REPORTED BY THE REFERRING MEDICAL SOURCE. IN SOME INSTANCES, THE DIAGNOSIS IS REPORTED BUT THE ACTUAL CAUSE OF BLINDNESS IS NOT.

ETIOLOGIES WITHIN THE CLASSIFICATION PRENATAL INFLUENCE NOT ELSEWHERE CLASSIFIED REPRESENT 6.6 PERCENT OF THE NEW

REGISTRATIONS. ETIOLOGIES WITHIN THIS CATEGORY ARE EITHER OF HEREDITARY OR CONGENITAL ORIGIN. DIAGNOSES AMONG THE YOUNGER AGE GROUPS USUALLY FALL WITHIN THIS CLASSIFICATION.

THE CLASSIFICATIONS, INJURIES/POISONINGS, INFECTIOUS DISEASES AND NEOPLASMS REPRESENT 1.2, 0.9 AND 0.8 PERCENT RESPECTIVELY. ETIOLOGIES WITHIN THIS CATEGORY ARE TRANSPORTATION AND OTHER ACCIDENTS, FIREARMS, METHYL ALCOHOL, RUBELLA, TUBERCULOSIS AND ACQUIRED IMMUNE DEFICIENCY SYNDROME. AS PREVIOUSLY MENTIONED, NOT ALL REPORTS INCLUDE THE SPECIFIC ETIOLOGY AND THEREFORE WE ARE NOT ABLE TO DETERMINE THE EXACT NUMBER OF AIDS RELATED REFERRALS REGISTERED IN 1987. BASED SOLELY ON THE INFORMATION REPORTED ON THE INITIAL REGISTERING EYE REPORT, AIDS WAS THE REPORTED ETIOLOGY IN FOUR INSTANCES. IT SHOULD BE NOTED THAT TWO OF THESE FOUR PERSONS DIED WITHIN SIX MONTHS OF REGISTRATION.

VISUAL ACUITY - NEW REGISTRATIONS

THE VISUAL CLASSIFICATIONS OF THE NEW REGISTRANTS REMAINS BASICALLY THE SAME AS IN PREVIOUS YEARS, WITH 68.1 PERCENT OF THE 1987 REGISTRANTS HAVING A REPORTED ACUITY RANGING BETWEEN 10/200 - 20/200 WHILE ONLY 2.8 PERCENT ARE CLASSIFIED AS TOTALLY BLIND.

RACE/ETHNIC DISTRIBUTION - NEW REGISTRATIONS

THE LIMITED STATISTICS PRESENTED ON RACE ARE BASED ON THE INFORMATION REPORTED ON THE INITIAL REGISTERING EYE REPORT. IN REVIEWING THESE REPORTS, IT WAS FOUND THAT ONLY 52.8 PERCENT INCLUDED RACE. BASED ONLY ON THOSE REPORTING RACE, 9.5 PERCENT WERE MINORITIES. THE RACIAL/ETHNIC DISTRIBUTION BY AGE GROUP INDICATES A HIGH OF 18.4 PERCENT IN THE GROUP AGES 14 - 22 TO A LOW OF 0.9 PERCENT IN THE GROUP AGES 85 AND OVER. REGIONAL DISTRIBUTION RANGES FROM A LOW OF 2.1 PERCENT IN REGIONS IV AND V TO A HIGH OF 17.3 PERCENT IN REGION VI.

NURSING HOME POPULATION - NEW REGISTRATIONS

BASED ON INFORMATION REPORTED AT THE TIME OF INITIAL REGISTRATION, 8.8 PERCENT OF THE 1987 REGISTRANTS WERE RESIDENTS OF NURSING HOMES. AS EXPECTED, THE HIGHEST PERCENTAGE, 18.8, OF THOSE IN AGE GROUP 85 YEARS AND OVER WERE IN NURSING HOMES AT THE TIME OF REGISTRATION. THE INDIVIDUAL REGIONAL PERCENTAGES RANGE FROM 4.1 PERCENT IN REGION II TO 12.5 PERCENT IN REGION III. AS THE ACTUAL LOCATION OF NEW REGISTRANTS IS NOT ALWAYS REPORTED ON THE INITIAL EYE REPORT WE ARE UNABLE TO DETERMINE THE EXACT NUMBER OF LEGALLY BLIND PERSONS RESIDING IN NURSING HOMES.

REGISTER REMOVALS

THE 2,100 REMOVALS COMPLETED IN 1987 REPRESENTS AN INCREASE OF 134 PERCENT OVER THE PREVIOUS YEAR. THIS IS A RESULT OF THE 1986 CENSUS REGISTER REMOVALS BEING COMPLETED IN 1987. DEATH CONTINUES TO BE THE PRIMARY CAUSE FOR REMOVAL, WITH 72.8 PERCENT OF THOSE REMOVED BEING AGES 75 AND OVER AT THE TIME OF REMOVAL.

REGIONAL DISTRIBUTION
TOTAL REGISTER

REGION I	3,369	12.6%
REGION II	3,051	11.4%
REGION III	5,419	20.3%
REGION IV	6,208	23.2%
REGION V	4,823	18.1%
REGION VI	3,840	14.4%
TOTAL	26,710	100.0

REGION I

ADAMS	36	HANCOCK	1	PITTSFIELD	270
AGAWAM	99	HATFIELD	6	PLAINFIELD	1
ALFORD	-	HAWLEY	-	RICHMOND	2
AMHERST	80	HEATH	1	ROWE	-
ASHFIELD	3	HINSDALE	8	ROYALSTON	3
ATHOL	75	HOLYOKE	230	RUSSELL	2
BECKET	2	HUNTINGTON	6	SANDISFIELD	2
BELCHERTOWN	22	LANESBORO	11	SAVOY	2
(STATE SCHOOL)	64	LEE	16	SHEFFIELD	7
BERNARDSTON	5	LENOX	47	SHELBURNE	20
BLANDFORD	1	LEVERETT	3	SHUTESBURY	-
BUCKLAND	-	LEYDON	1	SOUTHAMPTON	7
CHARLEMONT	6	LONGMEADOW	51	SOUTH HADLEY	54
CHESHIRE	7	LUDLOW	53	SOUTHWICK	12
CHESTER	3	MIDDLEFIELD	1	SPRINGFIELD	742
CHESTERFIELD	3	MONROE	-	STOCKBRIDGE	13
CHICOPEE	207	MONSON	14	SUNDERLAND	6
CLARKSBURG	5	MONTAGUE	40	TOLLAND	1
COLRAIN	6	MONTEREY	3	TYRINGHAM	1
CONWAY	4	MONTGOMERY	2	WARE	34
CUMMINGTON	1	MOUNT WASHINGTON	-	WARWICK	6
DALTON	34	NEW ASHFORD	-	WASHINGTON	-
DEERFIELD	12	NEW MARLBOROUGH	1	WENDELL	-
EASTHAMPTON	56	NEW SALEM	-	WESTFIELD	120
EAST LONGMEADOW	44	NORTH ADAMS	79	WESTHAMPTON	-
EGREMONT	1	NORTHAMPTON	142	WEST SPRINGFIELD	100
ERVING	2	(STATE HOSPITAL)	4	WEST STOCKBRIDGE	4
FLORIDA	-	NORTHFIELD	9	WHATELY	1
GILL	4	ORANGE	42	WILBRAHAM	33
GOSHEN	-	OTIS	2	WILLIAMSBURG	6
GRANBY	19	PALMER	55	WILLIAMSTOWN	46
GRANVILLE	5	(STATE SCHOOL)	50	WINDSOR	1
GREAT BARRINGTON	51	PELHAM	-	WORTHINGTON	3
GREENFIELD	104	PERU	-		
HADLEY	13	PETERSHAM	1		
HAMPDEN	14	PHILLIPSTON	3	TOTAL	3,369

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REGION II

ASHBURNHAM	12	HARVARD	8	SHIRLEY	20
ASHBY	6	HOLDEN	42	SHREWSBURY	86
AUBURN	51	HOLLAND	1	SOUTHBRIDGE	62
AYER	48	HOPEDALE	27	SPENCER	46
BARRE	17	HUBBARDSTON	3	STERLING	19
BELLINGHAM	24	LANCASTER	30	STURBRIDGE	18
BERLIN	7	LEICESTER	23	SUTTON	13
BLACKSTONE	19	LEOMINSTER	147	TEMPLETON	27
BOLTON	5	LUNENBERG	14	TOWNSEND	16
BOYLSTON	16	MEDWAY	27	UPTON	15
BRIMFIELD	5	MENDON	12	UXBRIDGE	42
BROOKFIELD	12	MILFORD	101	WALES	3
CHARLTON	23	MILLBURY	58	WARREN	17
CLINTON	62	MILLVILLE	3	WEBSTER	61
DOUGLAS	18	NEW BRAINTREE	-	WEST BOYLSTON	25
DUDLEY	26	NORTHBRIDGE	61	WEST BROOKFIELD	16
EAST BROOKFIELD	2	NORTH BROOKFIELD	18	WESTMINSTER	17
FITCHBURG	214	OAKHAM	2	WINCHENDON	34
FRANKLIN	58	OXFORD	44	WORCESTER	991
GARDNER	111	PAXTON	4	(STATE HOSPITAL)	13
GRAFTON	44	PEPPERELL	18		
GROTON	54	PRINCETON	4		
HARDWICK	9	RUTLAND	20	TOTAL	3,051

REGION III

AMESBURY	76	IPSWICH	51	REVERE	251
ANDOVER	92	LAWRENCE	301	ROCKPORT	39
BEVERLY	185	LOWELL	413	ROWLEY	11
BILLERICA	103	LYNN	442	SALEM	219
BOXFORD	9	LYNNFIELD	27	SALISBURY	29
CHELMSFORD	91	MALDEN	294	SAUGUS	109
CHELSEA	164	MANCHESTER	16	STONEHAM	69
(SOLDIER'S HOME)	8	MARBLEHEAD	83	SWAMPSCOTT	69
DANVERS	96	MEDFORD	269	TEWKSBURY	88
(STATE HOSPITAL)	15	MELROSE	169	TOPSFIELD	13
(HOGAN CENTER)	15	MERRIMAC	14	TYNGSBORO	13
DRACUT	50	METHUEN	157	WAKEFIELD	92
DUNSTABLE	2	MIDDLETON	17	WENHAM	12
ESSEX	12	NAHANT	21	WESTFORD	31
EVERETT	196	NEWBURY	9	WEST NEWBURY	8
GEORGETOWN	14	NEWBURYPORT	66	WINTHROP	124
GLOUCESTER	123	NORTH ANDOVER	74		
GROVELAND	12	NORTH READING	33		
HAMILTON	24	PEABODY	186		
HAVERHILL	240	READING	73	TOTAL	5,419

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REGION IV

ACTON	31	LEXINGTON	138	SOUTHBORO	9
ARLINGTON	240	LINCOLN	17	STOW	16
ASHLAND	29	LITTLETON	23	SUDBURY	33
BEDFORD	86	MARLBORO	107	WALPOLE	38
BELMONT	134	MAYNARD	32	WALTHAM	263
(FERNALD)	152	MEDFIELD	27	WATERTOWN	268
BOXBORO	4	(STATE HOSPITAL)	5	(PERKINS)	14
BRAINTREE	214	MILLIS	15	WAYLAND	38
BURLINGTON	54	MILTON	125	WELLESLEY	78
CAMBRIDGE	509	NATICK	104	WESTBORO	54
CANTON	73	NEEDHAM	136	(STATE HOSPITAL)	9
CARLISLE	6	NEWTON	420	WESTON	32
COHASSET	31	NORFOLK	15	WESTWOOD	35
CONCORD	77	NORTHBORO	31	WEYMOUTH	243
DEDHAM	101	NORWELL	32	WILMINGTON	53
DOVER	6	NORWOOD	156	WINCHESTER	83
FOXBORO	45	PLAINVILLE	31	WOBURN	122
FRAMINGHAM	284	QUINCY	451	WRENTHAM	39
HINGHAM	76	RANDOLPH	133	(STATE SCHOOL)	69
HOLLISTON	17	SCITUATE	65		
HOPKINTON	11	SHARON	48		
HUDSON	35	SHERBORN	6		
HULL	39	SOMERVILLE	341	TOTAL	6,208

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REGION V

ABINGTON	58	FREETOWN	21	PLYMPTON	5
ACUSHNET	23	GAY HEAD	1	PROVINCETOWN	21
ATTLEBORO	147	GOSNOLD	-	RAYNHAM	14
AVON	18	HALIFAX	30	REHOBOTH	15
BARNSTABLE	230	HANOVER	32	ROCHESTER	9
BERKLEY	4	HANSON	31	ROCKLAND	59
BOURNE	65	HARWICH	48	SANDWICH	37
BREWSTER	40	HOLBROOK	40	SEEKONK	21
BRIDGEWATER	37	KINGSTON	32	SOMERSET	83
BROCKTON	491	LAKEVILLE	14	STOUGHTON	90
CARVER	25	MANSFIELD	27	SWANSEA	69
CHATHAM	38	MARION	17	TAUNTON	152
CHILMARK	2	MARSHFIELD	60	(STATE HOSP.)	5
DARTMOUTH	92	MASHPEE	16	(P.A. DEVER)	64
DENNIS	72	MATTAPOISETT	27	TISBURY	12
DIGHTON	22	MIDDLEBORO	73	TRURO	3
DUXBURY	42	NANTUCKET	14	WAREHAM	69
EAST BRIDGEWATER	34	NEW BEDFORD	630	WELLFLEET	7
EASTHAM	13	NORTH ATTLEBORO	81	WEST BRIDGEWATER	19
EASTON	39	NORTON	31	WESTPORT	40
EDGARTOWN	7	OAK BLUFFS	15	WEST TISBURY	2
FAIRHAVEN	83	ORLEANS	31	WHITMAN	37
FALL RIVER	629	PEMBROKE	40	YARMOUTH	115
FALMOUTH	132	PLYMOUTH	221		
				TOTAL	4,823

REGION VI

ALLSTON	92	EAST BOSTON	192	ROXBURY	304
BOSTON	633	HYDE PARK	172	SOUTH BOSTON	186
BRIGHTON	274	JAMAICA PLAIN	288	WEST ROXBURY	181
BROOKLINE	374	MATTAPAN	113		
		(STATE HOSPITAL)	14		
CHARLESTOWN	58	(CHRONIC " ")	12		
DORCHESTER	690	ROSLINDALE	257	TOTAL	3,840

REGIONAL DISTRIBUTION - 1987 REGISTRATIONS

REGION I	368	13.3%
REGION II	318	11.5%
REGION III	559	20.3%
REGION IV	636	23.0%
REGION V	533	19.3%
REGION VI	346	12.6%
TOTAL	2,760	100.0%

REGIONAL DISTRIBUTION - 1987 REGISTRATIONS

	REGION I		REGION II		REGION III		REGION IV		REGION V		REGION VI		TOTALS		TOTAL, AGE GROUP	% OF AGE GROUP
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
0 - 6	6	5	9	1	13	7	11	8	6	6	9	7	54	34	88	3.2
7 - 13	1	2	-	8	6	6	5	2	3	2	6	2	21	22	43	1.6
14 - 22	6	2	3	1	7	3	9	3	5	5	2	3	32	17	49	1.8
23 - 44	7	15	10	7	15	15	19	25	14	10	25	13	90	85	175	6.3
45 - 64	19	27	12	18	27	28	18	29	19	24	17	31	112	157	269	9.7
65 - 74	16	35	16	30	33	46	36	52	29	44	15	32	145	239	384	13.9
75 - 84	34	83	30	78	53	136	50	137	61	115	27	65	255	614	869	31.5
85 & OVER	23	80	20	67	41	106	51	137	40	113	23	61	198	564	762	27.6
UNKNOWN	2	5	3	5	6	11	14	30	13	24	2	6	40	81	121	4.4
TOTAL	114	254	103	215	201	358	213	423	190	343	126	220	947	1,815	2,760	100.0
REGIONAL TOTAL	368		318		559		636		533		346		2,760			
% OF 1987 REGISTRATIONS	13.3		11.5		20.3		23.0		19.3		12.6		100.0			

TOTAL REGISTER

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
0 - 6	224	182	406	1.5
7 - 13	255	226	481	1.8
14 - 22	411	315	726	2.7
23 - 44	1,782	1,488	3,270	12.3
45 - 64	1,693	1,655	3,348	12.6
65 - 74	1,474	2,087	3,561	13.3
75 - 84	1,890	3,915	5,805	21.7
85 & OVER	1,973	6,077	8,050	30.1
UNKNOWN	354	709	1,063	4.0
TOTAL	10,056	16,654	26,710	100.0

TOTAL REGISTER

	<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>
1987	21	12	9	1948	159	88	71	1909	512	179	333
1986	36	17	19	1947	164	96	68	1908	581	184	397
1985	62	38	24	1946	158	86	71	1907	573	181	392
1984	67	40	27	1945	132	78	54	1906	609	192	417
1983	71	30	41	1944	119	69	50	1905	656	194	462
1982	74	43	31	1943	152	80	72	1904	677	198	479
1981	75	44	31	1942	131	73	58	1903	722	210	512
1980	77	37	40	1941	114	68	46	1902	749	215	534
1979	67	34	33	1940	114	63	51	1901	672	185	487
1978	71	30	41	1939	105	54	51	1900	748	183	565
1977	60	37	23	1938	107	61	46	1899	591	141	450
1976	61	34	27	1937	113	53	60	1898	689	174	515
1975	73	41	32	1936	134	79	55	1897	635	152	483
1974	72	42	30	1935	150	82	68	1896	681	173	508
1973	55	33	22	1934	140	82	58	1895	563	135	428
1972	70	39	31	1933	145	68	77	1894	469	120	349
1971	79	54	25	1932	155	63	92	1893	432	96	336
1970	83	44	39	1931	154	72	82	1892	368	85	283
1969	80	43	37	1930	159	83	76	1891	323	78	245
1968	77	42	35	1929	199	110	89	1890	267	51	216
1967	88	58	30	1928	206	105	101	1889	218	64	154
1966	83	46	37	1927	200	87	113	1888	192	39	153
1965	111	52	59	1926	218	98	120	1887	102	25	77
1964	141	68	74	1925	239	126	113	1886	78	7	71
1963	131	71	60	1924	262	136	126	1885	84	15	69
1962	126	71	55	1923	303	130	173	1884	94	13	81
1961	120	57	63	1922	299	139	160	1883	27	5	22
1960	147	88	59	1921	336	137	199	1882	33	9	24
1959	117	62	55	1920	328	144	184	1881	8	2	6
1958	148	80	68	1919	318	129	189	1880	15	4	11
1957	130	73	57	1918	343	152	191	1879	6	-	6
1956	145	81	64	1917	364	146	218	1878	4	-	4
1955	159	94	65	1916	342	139	203	1877	2	2	-
1954	158	86	72	1915	399	164	235	UNKNOWN	1,063	354	709
1953	185	90	95	1914	398	161	237				
1952	169	92	77	1913	434	163	271				
1951	184	92	92	1912	432	187	245				
1950	168	91	77	1911	512	196	316				
1949	158	89	69	1910	531	169	362				
								TOTAL 26,710 10,056 15,654			

1987 REGISTRATIONS

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
0 - 6	54	34	88	3.2
7 - 13	21	22	43	1.6
14 - 22	32	17	49	1.8
23 - 44	90	85	175	6.3
45 - 64	112	157	269	9.7
65 - 74	145	239	384	13.9
75 - 84	255	614	869	31.5
85 & OVER	198	564	762	27.6
UNKNOWN	40	81	121	4.4
TOTAL	947	1,813	2,760	100.0

1987 REGISTRATIONS

	TOTAL	M	E		TOTAL	M	E		TOTAL	M	E
1987	21	12	9	1948	6	4	2	1909	83	23	60
1986	23	13	10	1947	7	3	4	1908	84	27	57
1985	9	6	3	1946	4	2	2	1907	87	28	59
1984	11	10	1	1945	5	2	3	1906	88	24	64
1983	10	6	4	1944	7	2	5	1905	93	25	68
1982	6	2	4	1943	9	4	5	1904	83	17	66
1981	8	5	3	1942	8	4	4	1903	110	21	89
1980	12	5	7	1941	3	1	2	1902	113	39	74
1979	6	4	2	1940	8	1	7	1901	104	15	89
1978	8	3	5	1939	8	5	3	1900	88	23	65
1977	5	4	1	1938	8	4	4	1899	70	20	50
1976	5	2	3	1937	12	8	4	1898	83	25	58
1975	2	1	1	1936	6	4	2	1897	59	14	45
1974	5	2	3	1935	11	2	9	1896	57	15	42
1973	3	1	2	1934	9	6	3	1895	48	12	36
1972	4	-	4	1933	7	1	6	1894	43	8	35
1971	6	6	-	1932	13	6	7	1893	23	5	18
1970	5	3	2	1931	13	6	7	1892	22	7	15
1969	3	3	-	1930	12	6	6	1891	16	7	9
1968	7	4	3	1929	20	11	9	1890	10	2	8
1967	5	3	2	1928	19	11	8	1889	7	2	5
1966	7	6	1	1927	20	6	14	1888	4	1	3
1965	9	6	3	1926	18	4	14	1887	2	1	1
1964	10	1	9	1925	18	8	10	1886	7	2	5
1963	11	4	7	1924	21	8	13	1885	3	-	3
1962	7	3	4	1923	35	10	25	1884	2	-	2
1961	9	5	4	1922	31	11	20	1883	-	-	-
1960	8	5	3	1921	47	19	28	1882	-	-	-
1959	3	2	1	1920	27	8	19	1881	1	-	1
1958	27	19	8	1919	26	7	19	UNKNOWN	121	40	81
1957	5	2	3	1918	34	17	17				
1956	8	6	2	1917	36	14	22				
1955	9	5	4	1916	35	16	19				
1954	7	2	5	1915	52	23	29				
1953	4	1	3	1914	43	13	30				
1952	11	7	4	1913	53	17	36				
1951	4	2	2	1912	72	35	37				
1950	7	6	1	1911	86	26	60				
1949	7	3	4	1910	83	29	54				
								TOTAL	2,760	907	1,813

DIAGNOSES - TOTAL REGISTER

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
1. MACULAR DEGENERATION	2,372	5,391	7,763	29.1
2. DIABETIC RETINOPATHY	819	1,520	2,339	8.8
3. CATARACT	603	1,156	1,759	6.6
4. CATARACT w/RETINAL AFFECTION	379	1,315	1,694	6.3
5. GLAUCOMA	660	879	1,539	5.8
6. OPTIC NERVE ATROPHY	590	509	1,099	4.1
7. RETINITIS PIGMENTOSA	465	430	895	3.4
8. OTHER AFFECTION OF OPTIC PATHWAY	452	406	858	3.2
9. MYOPIA	254	416	670	2.5
10. RETINAL AFFECTION w/OTHER COMBINATION	210	436	646	2.4
11. MULTIPLE CONG. OCULAR MALFORMATIONS	323	321	644	2.4
12. GLAUCOMA WITH CATARACT	190	441	631	2.4
13. RETROLENTAL FIBROPLASIA	255	255	510	1.9
14. GLAUCOMA w/RETINAL AFFECTION	173	318	491	1.8
15. OPTIC NEURITIS	196	189	385	1.4
16. CATARACT WITH OTHER COMBINATION	104	276	380	1.4
17. GLAUCOMA, CATARACT w/RETINAL AFFECTION	101	226	327	1.2
18. NYSTAGMUS	137	155	292	1.1
19. ALBINISM	150	130	280	1.1
20. CHORIORETINITIS	92	145	237	0.9
ALL OTHER MULTIPLE AFFECTIONS	162	139	301	1.1
ALL OTHER DIAGNOSES	1,088	1,290	2,378	8.9
UNKNOWN DIAGNOSES	281	311	592	2.2
TOTAL	10,056	16,654	26,710	100.0

DIAGNOSES - TOTAL REGISTER

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>RETINA</u>			
MACULAR DEGENERATION	2,372	5,391	7,763
DIABETIC RETINOPATHY	819	1,520	2,339
RETINITIS PIGMENTOSA	465	430	895
RETROLENTAL FIBROPLASIA	255	255	510
DETACHED RETINA	143	89	232
OTHER RETINAL DEGENERATION	78	133	211
OTHER AFFECTIONS OF THE RETINA	194	197	391
<u>EYEBALL IN GENERAL</u>			
GLAUCOMA	660	879	1,539
MYOPIA	254	416	670
ALBINISM	150	130	280
MICROPHTHALMOS	17	30	47
HYDROPHTHALMOS	42	42	84
MULTIPLE CONGENITAL MALFORMATIONS	323	321	644
ATROPHIC GLOBE	39	27	66
ANOPHTHALMOS	18	11	29
OTHER AFFECTIONS OF THE EYEBALL	46	27	73
<u>OPTIC NERVE</u>			
OPTIC NERVE ATROPHY	590	509	1,099
NYSTAGMUS	137	155	292
OPTIC NEURITIS	196	189	385
OTHER AFFECTIONS OF OPTIC PATHWAY	452	406	858
OTHER AFFECTIONS OF OPTIC NERVE	72	77	149
<u>LENS</u>			
CATARACT	603	1,156	1,759
DISLOCATED LENS	19	19	38
OTHER AFFECTIONS OF THE LENS	3	1	4
<u>VITREOUS</u>			
VITREOUS HEMORRHAGE	23	27	50
OTHER AFFECTIONS OF THE VITREOUS	14	12	26

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>CORNEA</u>			
KERITITIS	42	81	123
CORNEAL DYSTROPHY	48	116	164
KERATOCONUS	29	32	61
OTHER AFFECTIONS OF THE CORNEA	95	126	221
<u>UYEAL TRACT</u>			
CHORIORETINITIS	92	145	237
UVEITIS, IRITIS, CHOROIDITIS	43	89	132
OTHER AFFECTIONS OF THE IRIS/CHOROID	71	72	143
<u>AMBLYOPIA</u>	52	82	134
<u>MULTIPLE AFFECTIONS</u>			
GLAUCOMA WITH CATARACT	190	441	631
GLAUCOMA WITH RETINAL AFFECTION	173	318	491
CATARACT WITH RETINAL AFFECTION	379	1,315	1,694
GLAUCOMA, CATARACT & RETINAL AFF.	101	226	327
GLAUCOMA WITH OTHER AFFECTIONS	65	81	146
CATARACT WITH OTHER AFFECTIONS	104	276	380
RETINAL AFFECTIONS W/OTHER COMBINATIONS	210	436	646
ALL OTHER MULTIPLE AFFECTIONS	97	58	155
<u>SITE & TYPE OF AFFECTIONS UNKNOWN</u>	281	311	592
 TOTAL	 10,056	 16,654	 26,710

		0-6		7-13		14-22		23-44		45-64		65-74		75+		link.		TOTAL		TOTAL		%	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Macular Degeneration				1	2	2	1	3	3	15	22	46	78	239	623	10	33	316	762	1,078	391		
Diabetic Retinopathy						1		19	22	32	48	33	64	15	30	4	9	104	173	277	100		
Cataract & Ret. Aff. w/o Glau.									2	3	11	5	22	35	113		6	43	154	197	7.1		
Glaucoma									2	5	8	10	13	41	76	1	6	57	105	162	5.9		
Cataract	1				2		1	1	1	7	11	3	8	20	71	2	4	34	98	132	4.8		
Other Aff. Optic Path.	15	11	5	3	5	2	2	5	3	3	4	7	12	8	13	2	1	50	49	99	3.6		
Ret. aff. w/other combo.	1					1		4	2	7	10	4	8	13	43		4	30	62	97	3.5		
Glau, Ret. Aff. w/o Cat.								3	1	3		4	4	16	39	1		27	44	71	2.6		
Glau, Cat. w/o other combo								1	1		2	3	2	12	40	3	2	19	47	66	2.4		
Other Aff. of Retina	1	1	1			1		4		1	1	8	4	9	23	3	3	28	28	56	2.0		
Other Retinopathy										3		1	4	12	29	2		18	33	51	1.9		
Optic Nerve Atrophy	5	4	2	2	5			6	2	2	3	4	2	4	6		3	28	22	50	1.8		
Retinitis Pigmentosa	2			1			5	9	8	8	6	2			2		1	21	23	44	1.6		
Mult. Cong. Ocular Malf.	10	7	5	6	5		2	1	6		2				4			21	23	44	1.6		
Cataract w/other Combo.								1	1		4	1	3	4	16	2	1	8	25	33	1.2		
Optic Neuritis		2						7	6		4	4		1	7		1	12	20	32	1.2		
Glau, Cat. & Ret. Aff.										1	1	1	2	8	17	1		11	20	31	1.1		
Myopia	1		1			1		4	2	1	4	2	6	1	4	1		12	16	28	1.0		
Other Aff. Cornea/Sclera							2	2	3	4	2		2	4	3		1	10	13	23	0.8		
Corneal Dystrophy									1	2	1	1	3	1	8	2	1	6	14	20	0.7		
Retrolental Fibroplasia	8	2		1	2	2	1	2	2									12	6	18	0.6		
Other Aff. of Eyeball		1	1	1	3			4	3	2		1			1	1		12	6	18	0.6		
Other Aff. of Optic Nerve	4	2	2	2	1	1	1	1		2	2			1			1	11	8	19	0.7		
Detached Retina	1					1		2	3						3	1		7	6	13	0.5		
Nystagmus	2	1	2		1	1	1	4	1									9	3	12	0.4		
Other Aff. Iris/Choroid		1	1	1		1			2	1	1		1					2	6	8	0.3		
Chorioretinitis								1	1				1	1	1		1	2	4	6	0.2		
All Other Diagnoses	3	1			3		5	4	4	4	5	1	1	5	7	2	2	23	20	43	1.6		
Unknown		1		1			1	1	3	6	5	3	3	2	3	2	1	14	18	32	1.2		
Total	54	34	21	22	32	17	90	85	112	157	145	239	453	1178	40	81	947	1813	2,760	100.0			

DIAGNOSES - 1987 REGISTRATIONS

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>RETINA</u>			
MACULAR DEGENERATION	316	762	1,078
DIABETIC RETINOPATHY	104	173	277
RETINITIS PIGMENTOSA	21	23	44
RETROLENTAL FIBROPLASIA	12	6	18
DETACHED RETINA	7	6	13
OTHER RETINAL DEGENERATION	18	33	51
OTHER AFFECTIONS OF THE RETINA	28	28	56
<u>EYEBALL IN GENERAL</u>			
GLAUCOMA	57	105	162
MYOPIA	12	16	28
ALBINISM	1	1	2
MICROPHTHALMOS	-	-	-
HYDROPHTHALMOS	5	3	8
MULTIPLE CONGENITAL MALFORMATIONS	21	23	44
ATROPHIC GLOBE	1	-	1
ANOPHTHALMOS	-	1	1
OTHER AFFECTIONS OF THE EYEBALL	5	1	6
<u>OPTIC NERVE</u>			
OPTIC NERVE ATROPHY	28	22	50
NYSTAGMUS	9	3	12
OPTIC NEURITIS	12	20	32
OTHER AFFECTIONS OF OPTIC PATHWAY	50	49	99
OTHER AFFECTIONS OF OPTIC NERVE	11	8	19
<u>LENS</u>			
CATARACT	34	98	132
DISLOCATED LENS	2	-	2
OTHER AFFECTIONS OF THE LENS	-	-	-
<u>VITREOUS</u>			
VITREOUS HEMORRHAGE	2	6	8
OTHER AFFECTIONS OF THE VITREOUS	1	1	2

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>CORNEA</u>			
KERITITIS	3	4	7
CORNEAL DYSTROPHY	6	14	20
KERATOCONUS	1	2	3
OTHER AFFECTIONS OF THE CORNEA	6	7	13
<u>UVEAL TRACT</u>			
CHORIORETINITIS	2	4	6
UVEITIS, IRITIS, CHOROIDITIS	1	4	5
OTHER AFFECTIONS OF THE IRIS/CHOROID	1	2	3
<u>AMBLYOPIA</u>	4	3	7
<u>MULTIPLE AFFECTIONS</u>			
GLAUCOMA WITH CATARACT	19	47	66
GLAUCOMA WITH RETINAL AFFECTION	27	44	71
CATARACT WITH RETINAL AFFECTION	43	154	197
GLAUCOMA, CATARACT & RETINAL AFF.	11	20	31
GLAUCOMA WITH OTHER AFFECTIONS	10	5	15
CATARACT WITH OTHER AFFECTIONS	8	25	33
RETINAL AFFECTIONS w/OTHER COMBINATIONS	30	67	97
ALL OTHER MULTIPLE AFFECTIONS	4	5	9
<u>SITE & TYPE OF AFFECTIONS UNKNOWN</u>	14	18	32
TOTAL	947	1,813	2,760

CLASSIFICATION BY ETIOLOGY
1987 REGISTRATIONS

DISEASES OR DISORDERS NOT ELSEWHERE CLASSIFIED	1,618	58.6%
ETIOLOGY INDEFINITE OR NOT REPORTED	830	31.9%
PRENATAL INFLUENCE NOT ELSEWHERE CLASSIFIED	183	6.6%
INJURIES/POISONINGS	33	1.2%
NEOPLASMS	21	0.8%
INFECTIOUS DISEASES	25	0.9%
TOTAL	2,760	100.0%

DISEASES OR DISORDERS
NOT ELSEWHERE CLASSIFIED

CLASSIFICATION BY ETIOLOGY
1987 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
DIABETES MELLITIS			1	45	96	101	50	14	307
SENILE DEGEN., REPORTED					12	69	486	18	585
" ASSUMED					22	73	505	7	607
NUTRITIONAL DEFICIENCY				2					2
CEREBROVASCULAR CONDITION	1	1	1	2	4	14	10	1	34
OTHER DISEASE OF THE CIRCULATORY SYSTEM				1	5	5	28	3	42
MULTIPLE SCLEROSIS				4	4	1		1	10
OTHER DISEASE OF THE CENTRAL NERVOUS SYSTEM	7	2	2	3	1		3		18
PSYCHOGENIC DISORDER				1	2				3
NONINFECTIOUS INFLAMMATORY DISEASE				2					2
OTHER SPECIFIED DISEASE OR DISORDER	1		1	1	1		4		8
Total	9	3	5	61	147	263	1,086	44	1,618

ETIOLOGY INDEFINITE
OR NOT REPORTED

CLASSIFICATION BY ETIOLOGY
REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
UNKNOWN TO SCIENCE	1			4	13	25	145	8	196
SENILE DEGENERATION & OTHER ETIOLOGY EXCEPT DIABETES MELLITUS					10	22	39	3	74
SENILE DEGENERATION & DIABETES MELLITUS W/O OTHER ETIOLOGY				2	21	39	295	9	366
ALL OTHER MULTIPLE ETIOLOGIES	1		1	6	3	1		1	13
ETIOLOGY NOT REPORTED OR ESTABLISHED	19	6	8	39	33	20	59	47	231
TOTAL	21	6	9	51	80	107	538	68	880

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PRENATAL INFLUENCE
NOT ELSEWHERE CLASSIFIED

HEREDITARY ORIGIN, OCCURRENCE IN GENETIC FAMILY REPORTED	2		5	3		1			11
HEREDITARY ORIGIN, OCCURRENCE IN GENETIC FAMILY NOT REPORTED	17	16	12	38	22	2	2	3	112
CONGENITAL ORIGIN NOT ELSEWHERE CLASSIFIED	30	11	10	3	4			2	60
TOTAL	49	27	27	44	26	3	2	5	183

INJURIES/POISONINGS

CLASSIFICATION BY ETIOLOGY
1987 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
RECREATIONAL ACTIV., OXYGEN	1								1
TRANSPORTATION, BLOW/FALL			3	3	1				7
" UNSPEC.			2						2
BIRTH PROCESS, OXYGEN	2	1							3
SURG/MED., TOXIC AGENT				1	1				2
OTHER ACTIVITY, OXYGEN	1								1
" NOT SPEC.				1					1
UNSPEC. ACTIV., CHEM BURN				1					1
" , FIREARM				1	1				2
" , METH. ALCOHOL				1					1
" , OXYGEN					1				1
" , TOXIC AGENT				1					1
" , UNSPEC.			2	6	2				10
TOTAL	4	1	7	15	6				33

INFECTIONS DISEASES

CLASSIFICATION BY ETIOLOGY

1987 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
HERPES SIMPLEX									
RUBELLA	1		1				1		1
SYPHILIS, OTHER						1			2
TOXOPLASMOSIS, PRENATAL	1								1
" OTHER	1			2					3
TUBERCULOSIS					2				2
OTHER INFECT. DISEASE		2		1	1	3		1	8
IDENT. INFECT. DISEASE		1			3		2	1	7
TOTAL	3	3	1	3	6	4	3	2	25
NEOPLASMS									
MALIGNANT MELANOMA					1		1		2
PHAKOMATOSIS		1							1
NEOPLASM OF PITUITARY GLAND OR STALK						1	1		2
OTHER INTRACRANIAL NEOPLASM	2	2			1	5		1	11
OTHER NEOPLASM				1	2	1		1	5
TOTAL	2	3		1	4	7	2	2	21

VISUAL ACUITY - 1987 REGISTRATIONS

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	0-6		7-13		14-22		23-44		45-64		65-74		75-84		85+		Unk.		TOTAL	%
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
ABSOLUTE BLINDNESS	16	6	2	3	6	2	6	9	2	2	1	2	4	6	3	6	1	1	78	2.8
LIGHT PERCEPTION	11	9	2	2	4	1	5	2	4	4	3	4	2	6	4	7		2	72	2.6
LIGHT PROJECTION									2			1				4		1	8	0.3
LESS THAN 5/200	1	1		4	5	1	16	13	10	19	22	17	31	82	35	96	5	10	368	13.3
5/200 - 9/200				1			4	2	6	11	7	15	22	58	18	67		4	215	7.8
10/200 - 19/200	21	13	5	7	6	3	17	24	35	48	48	88	73	215	74	188	19	30	914	33.1
20/200	5	5	11	5	8	10	31	23	40	61	57	101	110	226	56	176	12	29	966	35.0
RESTRICTED FIELDS			1		3		11	12	13	12	7	11	13	21	8	20	3	4	139	5.1
UNKNOWN																				
..	54	34	21	22	32	17	90	85	112	157	145	239	255	614	198	564	40	81	2,760	
TOTAL	88		43		49		175		269		384		869		762		121		2,760	100.0

RACE/ETHNIC DISTRIBUTION - 1987 REGISTRATIONS

AGE	WHITE	BLACK	HISPANIC	ORIENTAL	UNKNOWN	AGE GROUP TOTAL	MINORITY % WITHIN AGE GROUP
0 - 6	19	9	1	-	59	88	11.4
7 - 13	15	2	4	-	22	43	14.0
14 - 22	21	3	5	1	19	49	18.4
23 - 44	79	13	12	5	66	175	17.1
45 - 64	112	19	16	4	118	269	14.5
65 - 74	216	15	2	3	148	384	5.2
75 - 84	426	11	6	-	426	869	2.0
85 & OVER	413	4	3	-	342	762	0.9
UNKNOWN	19	-	-	-	102	121	0.0
TOTAL	1,320	76	49	13	1,302	2,760	
PERCENT	47.8	*2.7	*1.8	*0.5	47.2		*5.0

REGION	WHITE	BLACK	HISPANIC	ORIENTAL	UNKNOWN	REGIONAL TOTAL	REGIONAL MINORITY PERCENTAGE
I	160	10	16	-	182	368	7.1
II	173	2	6	-	137	318	2.5
III	268	5	10	5	271	559	3.6
IV	304	7	3	3	319	636	2.1
V	250	7	3	1	272	533	2.1
VI	165	45	11	4	121	346	17.3
TOTAL	1,320	76	49	13	1,302	2,760	
PERCENT	47.8	*2.7	*1.8	*0.5	47.2		*5.0

1987 REGISTER REMOVALS

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 - 6	8	8	16	0.7
7 - 13	6	5	11	0.5
14 - 22	13	8	21	1.0
23 - 44	43	45	88	4.2
45 - 64	76	53	129	6.1
65 - 74	94	117	211	10.1
75 - 84	172	277	449	21.4
85 & OVER	287	792	1,079	51.4
UNKNOWN	30	66	96	4.6
TOTAL	729	1,371	2,100	100.0

REMOVAL CAUSE

DEATH	625	1,174	1,799	85.7
OUT OF STATE	69	119	188	8.9
NOT BLIND	17	33	50	2.4
UNLOCATED	18	42	60	2.9
DUPLICATE	-	3	3	0.1
TOTAL	729	1,371	2,100	100.0

MASSACHUSETTS
COMMISSION FOR THE BLIND

1988

REPORT OF THE REGISTER



CHARLES H. CRAWFORD
COMMISSIONER

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INTRODUCTION

THE MASSACHUSETTS COMMISSION FOR THE BLIND REPORT OF THE REGISTER COVERS THE PERIOD JANUARY 1 - DECEMBER 31, 1988. THIS REPORT PRESENTS STATISTICS FOR THE TOTAL AND NEWLY REGISTERED BLIND POPULATION ON THE FOLLOWING CHARACTERISTICS:

- TOTAL POPULATION
- REGIONAL DISTRIBUTIONS
- AGE DISTRIBUTIONS
- SITE AND TYPE OF AFFECTIONS
- CAUSES OF BLINDNESS
- VISUAL ACUITIES
- RACE/ETHNIC DISTRIBUTIONS
- REMOVALS

TOTAL POPULATION

THE 1988 REGISTER OF THE COMMISSION FOR THE BLIND REPRESENTS A TOTAL OF 26,980 LEGALLY BLIND PERSONS. THIS TOTAL REFLECTS AN OVERALL INCREASE OF ONE PERCENT. THE REGIONAL DISTRIBUTION OF THE TOTAL REGISTER REMAINS BASICALLY THE SAME AS IN PREVIOUS YEARS. REGION IV REPRESENTS THE LARGEST OR 23.3 PERCENT AND REGION II THE SMALLEST OR 11.2 PERCENT OF THE TOTAL BLIND POPULATION.

REGIONAL DISTRIBUTION OF 1988 REGISTRATIONS

THE NUMBER OF NEW REGISTRATIONS REPRESENTS A 1.3 PERCENT INCREASE OVER THE 1987 NEW REGISTRATIONS. THE NUMBER OF NEW REGISTRANTS INCREASED IN FIVE OF THE SIX REGIONS WITH ONLY REGION II RECEIVING FEWER REFERRALS IN 1988 THAN IN 1987.

AGE DISTRIBUTIONS

THE AGING FACTOR CONTINUES TO BE A NOTABLE CHARACTERISTIC OF BOTH THE TOTAL AND NEW REGISTRATIONS WITH PERSONS AGES 65 AND OVER REPRESENTING 65.4 AND 73.6 PERCENT OF THE TOTAL AND NEW REGISTRANTS RESPECTIVELY. IN COMPARISON TO THE TOTAL POPULATION, THE AGING

TREND IS EVEN GREATER AMONG NEW REGISTRANTS AS EVIDENCED BY THE FACT THAT 57 PERCENT OF THIS GROUP WERE AGES 75 AND OVER AND 44 PERCENT AGES 80 AND OVER AT THE TIME OF INITIAL REGISTRATION.

A COMPARISON OF THE AGE DISTRIBUTION OF THE NEWLY REGISTERED IN 1987 AND 1988 REVEALS DECREASES IN THE AGE GROUPS 7 - 44 AND THE GROUP 85 AND OVER, 4.3 AND 5.8 PERCENT RESPECTIVELY. THERE WAS A 5 PERCENT INCREASE IN THE AGE GROUPS 45 - 84 YEARS.

ON A REGIONAL BASIS, NEW REGISTRANTS AGES 0 - 13 REPRESENT AN AVERAGE OF 21 PERCENT OF THE 1988 REGISTRATIONS WHILE AGES 14 - 64 REPRESENT AN AVERAGE OF 18 PERCENT. THE LARGEST PROPORTION, THOSE 65 YEARS AND OVER, REPRESENT AN AVERAGE OF 73 PERCENT OF THE NEW REGISTRANTS WITHIN EACH REGION.

SITE AND TYPE OF AFFECTIONS .

THE CONTINUING INCREASE IN THE ELDERLY POPULATION IS ALSO REFLECTED IN THE DIAGNOSES REPORTED AMONG BOTH THE TOTAL AND NEWLY REGISTERED. DIAGNOSES RELATED TO THE AGING PROCESS, MACULAR DEGENERATION, CATARACTS AND CATARACTS WITH RETINAL AFFECTION REPRESENT 42.4 AND 51.2 PERCENT OF THE TOTAL AND NEW REGISTRATIONS RESPECTIVELY.

DIABETIC RETINOPATHY CONTINUES TO BE A PRIMARY DIAGNOSIS AMONG BOTH THE TOTAL AND NEWLY REGISTERED, REPRESENTING 8.7 AND 9.6 PERCENT RESPECTIVELY. DIABETIC RETINOPATHY ALSO CONTINUES TO BE THE MOST FREQUENTLY REPORTED DIAGNOSIS AMONG NEW REGISTRANTS AGES 23 - 64, ACCOUNTING FOR 26.6 PERCENT OF THE NEWLY REGISTERED WITHIN THIS AGE GROUP.

MULTIPLE CONGENITAL OCULAR MALFORMATIONS AND AFFECTIONS OF THE OPTIC NERVE AND OPTIC PATHWAY TOGETHER REPRESENT 54 PERCENT OF THE DIAGNOSES REPORTED AMONG NEW REGISTRANTS 0 - 22 YEARS OF AGE. THESE DIAGNOSES ARE OFTEN ASSOCIATED WITH BIRTH DEFECTS, DISEASES OF THE CENTRAL NERVOUS SYSTEM OR OTHER SUCH DISORDERS AND THEREFORE INDICATE THE NUMBER OF CHILDREN AND YOUNG ADULTS WITH MULTIPLE DISABILITIES CURRENTLY BEING REGISTERED WITH THE COMMISSION FOR THE BLIND.

ETIOLOGY (CAUSES OF BLINDNESS)

TWO CLASSIFICATIONS OF ETIOLOGY REPRESENT 91 PERCENT OF ALL CAUSES OF BLINDNESS REPORTED IN 1988. THE FIRST, DISEASES AND DISORDERS NOT ELSEWHERE CLASSIFIED, INCLUDE ETIOLOGIES ATTRIBUTED TO SENILE DEGENERATION, RESULTING IN SUCH DIAGNOSES MACULAR DEGENERATION AND CATARACTS. OTHER ETIOLOGIES WITHIN THIS CATEGORY INCLUDE DIABETES MELLITUS, MULTIPLE SCLEROSIS, CEREBROVASCULAR CONDITIONS AND A VARIETY OF OTHER DISEASES. THE SECOND MAJOR CLASSIFICATION, ETIOLOGY INDEFINITE OR NOT REPORTED, INCLUDES SUCH DIAGNOSES AS GLAUCOMA, DETACHED RETINA, MULTIPLE ETIOLOGIES AND SO FORTH FOR WHICH THE EXACT CAUSE IS EITHER UNKNOWN TO SCIENCE OR NOT REPORTED. RETROLENTAL FIBROPLASIA, RETINITIS PIGMENTOSA, AFFECTIONS OF THE OPTIC NERVE AND OTHERS FALL INTO THIS CATEGORY. IN SOME INSTANCES, THE DIAGNOSIS WAS REPORTED BUT THE SPECIFIC CAUSE OF THE VISUAL LOSS WAS NOT.

PRENATAL INFLUENCE NOT ELSEWHERE CLASSIFIED REPRESENTS 6.1 PERCENT OF THE 1988 REGISTRATIONS. ETIOLOGIES WITHIN THIS CATEGORY ARE EITHER OF HEREDITARY OR CONGENITAL ORIGIN, WITH SUBSEQUENT DIAGNOSES INCLUDING RETINITIS PIGMENTOSA, MYOPIA, ALBINISM AND SO FORTH. AS INDICATED BY THE NATURE OF THESE CONDITIONS, DIAGNOSES AMONG THE YOUNGER AGE GROUPS USUALLY FALL WITHIN THIS CLASSIFICATION.

INJURIES/POISONINGS, INFECTIOUS DISEASES AND NEOPLASMS REPRESENT 1.5, 0.9 AND 0.6 PERCENT RESPECTIVELY AND OFTEN REFLECT THE MORE DRAMATIC CAUSES OF BLINDNESS. ETIOLOGIES WITHIN THESE CLASSIFICATIONS INCLUDE ACTS OF VIOLENCE, FIREARMS, TRAFFIC AND OTHER ACCIDENTS, RUBELLA, ACQUIRED IMMUNE DEFICIENCY SYNDROME AND A VARIETY OF NEOPLASMS. AIDS REPRESENTS 50 PERCENT OF THE ETIOLOGIES REPORTED WITHIN THE INFECTIOUS DISEASES CLASSIFICATION.

VISUAL ACUITY OF 1988 REGISTRATIONS

THE VISUAL ACUITY CLASSIFICATIONS REMAIN ESSENTIALLY THE SAME AS IN PREVIOUS YEARS, WITH 67.3 PERCENT OF THE NEW REGISTRANTS HAVING A REPORTED ACUITY RANGING BETWEEN 10/200 - 20/200 WHILE 4.5 PERCENT HAVE AN ACUITY OF LIGHT PERCEPTION OR LESS.

RACE/ETHNIC DISTRIBUTION OF 1988 REGISTRATIONS

1988 WAS THE SECOND YEAR IN WHICH STATISTICS ON THE RACE/ETHNIC DISTRIBUTION OF NEW REGISTRANTS WAS COLLECTED. THE DATA COLLECTED WAS OBTAINED FROM THE REPORT OF LEGAL BLINDNESS AT THE TIME OF INITIAL REGISTRATION.

IN 1983, THE NUMBER OF WHITE REGISTRANTS INCREASED BY 3.4 PERCENT WHILE THE NUMBER OF NON-WHITE REGISTRANTS DECREASED BY 22 PERCENT. THE NUMBER OF REGISTRANTS WHOSE RACE/ETHNIC CLASSIFICATION WAS UNKNOWN, DECREASED 1.6 PERCENT. HISPANICS EVIDENCED THE MOST NOTICEABLE DECREASE IN NEW REGISTRANTS AMONG THE THREE NON-WHITE GROUPS. IN 1987, 49 REGISTRANTS WERE OF HISPANIC ORIGIN, IN 1988, 29 NEW REGISTRANTS WERE OF HISPANIC ORIGIN; A DECREASE OF 40 PERCENT. THE NUMBER OF BLACK REGISTRANTS DECREASED BY 16 PERCENT. REGISTRANTS OF ASIAN BACKGROUND REMAINED STABLE BETWEEN 1987 AND 1988.

REGISTER REMOVALS

THE 2,525 REMOVALS COMPLETED IN 1988 REPRESENTS AN INCREASE OF 20.2 PERCENT OVER THE PREVIOUS YEAR. DEATH CONTINUES TO BE THE PRIMARY CAUSE FOR REMOVAL WITH 74.7 PERCENT OF THOSE REMOVED BEING 75 YEARS OF AGE AND OVER.

REGIONAL DISTRIBUTION
TOTAL REGISTER

REGION I	3,425	12.7%
REGION II	3,022	11.2%
REGION III	5,501	20.4%
REGION IV	6,289	23.3%
REGION V	4,879	18.1%
REGION VI	3,864	14.3%
TOTAL	26,980	100.0%

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REGION I

ADAMS	37	HANCOCK	-	PITTSFIELD	271
AGAWAM	107	HATFIELD	9	PLAINFIELD	1
ALFORD	-	HAWLEY	-	RICHMOND	1
AMHERST	80	HEATH	-	ROWE	-
ASHFIELD	3	HINSDALE	8	ROYALSTON	5
ATHOL	69	HOLYOKE	244	RUSSELL	2
BECKET	3	HUNTINGTON	8	SANDISFIELD	2
BELCHERTOWN	22	LANESBORO	12	SAVOY	1
(STATE SCHOOL)	63	LEE	18	SHEFFIELD	7
BERNARDSTON	5	LENOX	43	SHELBURNE	22
BLANDFORD	1	LEVERETT	3	SHUTESBURY	-
BUCKLAND	-	LEYDON	1	SOUTHAMPTON	8
CHARLEMONT	5	LONGMEADOW	53	SOUTH HADLEY	54
CHESHIRE	9	LUDLOW	50	SOUTHWICK	14
CHESTER	3	MIDDLEFIELD	1	SPRINGFIELD	753
CHESTERFIELD	2	MONROE	-	STOCKBRIDGE	15
CHICOPEE	210	MONSON	11	SUNDERLAND	5
CLARKSBURG	5	MONTAGUE	41	TOLLAND	1
COLRAIN	5	MONTEREY	4	TYRINGHAM	1
CONWAY	5	MONTGOMERY	2	WARE	35
CUMMINGTON	1	MOUNT WASHINGTON	-	WARWICK	7
DALTON	33	NEW ASHFORD	-	WASHINGTON	2
DEERFIELD	12	NEW MARLBOROUGH	1	WENDELL	-
EASTHAMPTON	59	NEW SALEM	-	WESTFIELD	124
EAST LONGMEADOW	45	NORTH ADAMS	82	WESTHAMPTON	2
EGREMONT	1	NORTHAMPTON	140	WEST SPRINGFIELD	107
ERVING	2	(STATE HOSPITAL)	4	WEST STOCKBRIDGE	5
FLORIDA	-	NORTHFIELD	7	WHATELY	1
GILL	3	ORANGE	46	WILBRAHAM	36
GOSHEN	-	OTIS	1	WILLIAMSBURG	5
GRANBY	21	PALMER	52	WILLIAMSTOWN	45
GRANVILLE	5	(STATE SCHOOL)	49	WINDSOR	1
GREAT BARRINGTON	50	PELHAM	-	WORTHINGTON	3
GREENFIELD	99	PERU	-		
HADLEY	14	PETERSHAM	3		
HAMPDEN	14	PHILLIPSTON	3	TOTAL	3,425

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REGION II

ASHBURNHAM	12	HARVARD	7	SHIRLEY	18
ASHBY	6	HOLDEN	41	SHREWSBURY	38
AUBURN	53	HOLLAND	1	SOUTHBRIDGE	68
AYER	44	HOPEDALE	25	SPENCER	43
BARRE	16	HUBBARDSTON	3	STERLING	20
BELLINGHAM	23	LANCASTER	29	STURBRIDGE	18
BERLIN	6	LEICESTER	22	SUTTON	16
BLACKSTONE	20	LEOMINSTER	144	TEMPLETON	24
BOLTON	6	LUNENBERG	12	TOWNSEND	14
BOYLSTON	10	MEDWAY	26	UPTON	15
BRIMFIELD	5	MENDON	10	UXBRIDGE	44
BROOKFIELD	13	MILFORD	106	WALES	3
CHARLTON	27	MILLBURY	58	WARREN	17
CLINTON	58	MILLVILLE	3	WEBSTER	60
DOUGLAS	14	NEW BRAINTREE	-	WEST BOYLSTON	25
DUDLEY	25	NORTHBRIDGE	37	WEST BROOKFIELD	18
EAST BROOKFIELD	2	NORTH BROOKFIELD	17	WESTMINSTER	19
FITCHBURG	215	OAKHAM	2	WINCHENDON	35
FRANKLIN	62	OXFORD	49	WORCESTER	976
GARDNER	118	PAXTON	5	(STATE HOSPITAL)	13
GRAFTON	46	PEPPERELL	16		
GROTON	57	PRINCETON	6		
HARDWICK	12	RUTLAND	19	TOTAL	3,022

REGION III

AMESBURY	79	IPSWICH	49	REVERE	265
ANDOVER	92	LAWRENCE	312	ROCKPORT	46
BEVERLY	184	LOWELL	421	ROWLEY	10
BILLERICA	112	LYNN	447	SALEM	216
BOXFORD	8	LYNNFIELD	26	SALISBURY	32
CHELMSFORD	94	MALDEN	300	SAUGUS	108
CHELSEA	163	MANCHESTER	19	STONEHAM	79
(SOLDIER'S HOME)	7	MARBLEHEAD	78	SWAMPSCOTT	63
DANVERS	105	MEDFORD	274	TEWKSBURY	87
(STATE HOSPITAL)	15	MELROSE	169	TOPSFIELD	15
(HOGAN CENTER)	15	MERRIMAC	15	TYNGSBORO	11
DRACUT	50	METHUEN	151	WAKEFIELD	87
DUNSTABLE	2	MIDDLETON	18	WENHAM	11
ESSEX	12	NAHANT	19	WESTFORD	31
EVERETT	184	NEWBURY	7	WEST NEWBURY	18
GEORGETOWN	19	NEWBURYPORT	71	WINTHROP	131
GLOUCESTER	117	NORTH ANDOVER	69		
GROVELAND	14	NORTH READING	39		
HAMILTON	22	PEABODY	196		
HAVERHILL	238	READING	79	TOTAL	5,501

REGION IV

ACTON	33	LEXINGTON	141	SOUTHBORO	9
ARLINGTON	242	LINCOLN	18	STOW	16
ASHLAND	27	LITTLETON	25	SUDBURY	35
BEDFORD	81	MARLBORO	111	WALPOLE	16
BELMONT	168	MAYNARD	32	WALTHAM	281
(FERNALD)	151	MEDFIELD	25	WATERTOWN	269
BOXBORO	4	(STATE HOSPITAL)	5	(PERKINS)	15
BRAINTREE	197	MILLIS	14	WAYLAND	40
BURLINGTON	59	MILTON	126	WELLESLEY	92
CAMBRIDGE	510	NATICK	108	WESTBORO	58
CANTON	72	NEEDHAM	144	(STATE HOSPITAL)	9
CARLISLE	7	NEWTON	394	WESTON	30
COHASSET	30	NORFOLK	14	WESTWOOD	41
CONCORD	76	NORTHBORO	32	WEYMOUTH	249
DEDHAM	108	NORWELL	29	WILMINGTON	52
DOVER	4	NORWOOD	154	WINCHESTER	82
FOXBORO	48	PLAINVILLE	25	WOBURN	129
FRAMINGHAM	293	QUINCY	464	WRENTHAM	37
HINGHAM	77	RANDOLPH	141	(STATE SCHOOL)	69
HOLLISTON	22	SCITUATE	71		
HOPKINTON	13	SHARON	50		
HUDSON	38	SHERBORN	6		
HULL	36	SOMERVILLE	335	TOTAL	6,289

REGION V

ABINGTON	60	FREETOWN	21	PLYMPTON	5
ACUSHNET	26	GAY HEAD	2	PROVINCETOWN	20
ATTLEBORO	147	GOSNOLD	-	RAYNHAM	16
AVON	18	HALIFAX	28	REHOBOTH	15
BARNSTABLE	229	HANOVER	28	ROCHESTER	8
BERKLEY	7	HANSON	33	ROCKLAND	64
BOURNE	67	HARWICH	51	SANDWICH	39
BREWSTER	35	HOLBROOK	42	SEEKONK	26
BRIDGEWATER	38	KINGSTON	38	SOMERSET	77
BROCKTON	501	LAKEVILLE	18	STOUGHTON	94
CARVER	22	MANFIELD	31	SWANSEA	69
CHATHAM	39	MARION	17	TAUNTON	157
CHILMARK	2	MARSHFIELD	57	(STATE HOSP.)	5
DARTMOUTH	90	MASHPEE	16	(P.A. DEVER)	60
DENNIS	76	MATTAPOISETT	26	TISBURY	16
DIGHTON	22	MIDDLEBORO	73	TRURO	4
DUXBURY	38	NANTUCKET	14	WAREHAM	74
EAST BRIDGEWATER	40	NEW BEDFORD	623	WELLFLEET	9
EASTHAM	14	NORTH ATTLEBORO	85	WEST BRIDGEWATER	20
EASTON	45	NORTON	32	WESTPORT	34
EDGARTOWN	5	OAK BLUFFS	16	WEST TISBURY	2
FAIRHAVEN	82	ORLEANS	35	WHITMAN	38
FALL RIVER	628	PEMBROKE	38	YARMOUTH	115
FALMOUTH	138	PLYMOUTH	219		
				TOTAL	4,879

REGION VI

ALLSTON	91	EAST BOSTON	182	ROXBURY	289
BOSTON	648	HYDE PARK	179	SOUTH BOSTON	185
BRIGHTON	276	JAMAICA PLAIN	285	WEST ROXBURY	180
BROOKLINE	376	MATTAPAN	118		
		(STATE HOSPITAL)	14		
CHARLESTOWN	66	(CHRONIC ")	13		
DORCHESTER	695	ROSLINDALE	267	TOTAL	3,864

REGIONAL DISTRIBUTION - 1988 REGISTRATIONS

REGION I	371	13.3%
REGION II	314	11.2%
REGION III	566	20.3%
REGION IV	646	23.1%
REGION V	547	19.6%
REGION VI	351	12.5%
TOTAL	2,795	100.0%

REGIONAL DISTRIBUTION - 1988 REGISTRATIONS

	REGION I		REGION II		REGION III		REGION IV		REGION V		REGION VI		TOTALS		TOTAL AGE GROUP	% OF AGE GROUP
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
0 - 6	10	8	4	7	11	7	8	9	7	9	4	5	44	45	89	3.2
7 - 13	5	2	1	-	5	5	1	2	6	4	1	6	19	19	38	1.3
14 - 22	2	6	4	2	5	4	5	9	2	3	3	2	21	26	47	1.7
23 - 44	15	18	13	8	16	17	11	10	16	5	18	24	89	82	171	6.1
45 - 64	18	27	11	10	34	36	24	28	26	29	15	18	128	148	276	9.9
65 - 74	23	42	18	38	28	44	45	55	47	51	15	35	176	265	441	15.8
75 - 84	32	68	31	58	56	125	57	170	49	143	26	80	251	644	895	32.0
85 & OVER	25	59	27	71	29	119	49	124	34	97	15	71	179	541	720	25.8
UNKNOWN	5	6	2	9	8	17	14	25	5	14	3	10	37	81	118	4.2
TOTAL	135	236	111	203	192	374	214	432	192	355	100	251	944	1,851	2,795	100.0
REGIONAL TOTAL	371		314		566		646		547		351		2,795			
% OF 1988 REGISTRATIONS	13.3		11.2		20.3		23.1		19.6		12.5		100.0			

TOTAL REGISTER

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
0 - 6	213	188	401	1.5
7 - 13	269	242	511	1.9
14 - 22	414	304	718	2.7
23 - 44	1,794	1,516	3,310	12.3
45 - 64	1,679	1,637	3,316	12.3
65 - 74	1,500	2,122	3,622	13.4
75 - 84	1,873	3,992	5,865	21.7
85 & OVER	1,972	6,181	8,153	30.2
UNKNOWN	353	731	1,084	4.0
TOTAL	10,067	16,913	26,980	100.0

TOTAL REGISTER

	<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>
1988	15	8	7								
1987	43	20	23	1948	167	91	76	1909	576	192	384
1986	48	23	25	1947	167	99	68	1908	621	182	439
1985	64	39	25	1946	161	86	75	1907	635	190	445
1984	78	45	33	1945	139	78	61	1906	639	193	446
1983	79	34	45	1944	123	71	52	1905	671	193	478
1982	74	44	30	1943	153	80	73	1904	708	202	506
1981	77	44	33	1942	138	77	61	1903	732	206	526
1980	82	38	44	1941	107	64	43	1902	778	216	562
1979	74	36	38	1940	119	65	54	1901	669	177	492
1978	71	31	40	1939	108	55	53	1900	739	174	565
1977	71	44	27	1938	108	61	47	1899	584	136	448
1976	64	36	28	1937	118	52	66	1898	656	167	489
1975	72	40	32	1936	140	82	58	1897	589	134	455
1974	72	41	31	1935	153	82	71	1896	623	156	467
1973	52	30	22	1934	152	92	60	1895	499	110	389
1972	72	41	31	1933	147	67	80	1894	406	113	293
1971	81	54	27	1932	162	67	95	1893	365	75	290
1970	87	47	40	1931	159	72	87	1892	322	71	251
1969	82	44	38	1930	173	88	85	1891	268	60	208
1968	79	43	36	1929	207	113	94	1890	216	38	178
1967	102	62	40	1928	217	112	105	1889	182	55	127
1966	91	52	39	1927	206	89	117	1888	152	25	127
1965	115	55	60	1926	221	95	126	1887	84	18	66
1964	146	69	77	1925	255	132	123	1886	59	4	55
1963	134	75	59	1924	273	134	139	1885	70	10	60
1962	133	76	57	1923	305	129	176	1884	80	11	69
1961	122	58	64	1922	295	137	158	1883	25	3	22
1960	149	88	61	1921	356	145	211	1882	28	8	20
1959	123	65	58	1920	339	144	195	1881	4	-	4
1958	160	87	73	1919	336	141	195	1880	11	3	8
1957	136	75	61	1918	359	159	200	1879	6	-	6
1956	146	81	65	1917	396	155	241	1878	4	-	4
1955	160	96	64	1916	369	144	225	1877	2	2	-
1954	159	85	74	1915	426	173	253	UNKNOWN	1,084	353	731
1953	187	90	97	1914	441	173	268				
1952	171	91	80	1913	455	175	280				
1951	187	94	93	1912	442	178	264				
1950	171	97	74	1911	546	195	351				
1949	154	87	67	1910	572	173	399				
									26,980	10,067	16,913

1988 REGISTRATIONS

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
0 - 6	44	45	89	3.2
7 - 13	19	19	38	1.3
14 - 22	21	26	47	1.7
23 - 44	89	82	171	6.1
45 - 64	128	148	276	9.9
65 - 74	176	265	441	15.8
75 - 84	251	644	895	32.0
85 & OVER	179	541	720	25.8
UNKNOWN	37	81	118	4.2
TOTAL	944	1,851	2,795	100.0

1988 REGISTRATIONS

TOTAL 2,795 944 1,851

DIAGNOSES - TOTAL REGISTER

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
1. MACULAR DEGENERATION	2,417	5,618	8,035	29.2
2. DIABETIC RETINOPATHY	821	1,534	2,355	8.7
3. CATARACT	578	1,119	1,697	6.3
4. CATARACT ^W /RETINAL AFFECTION	376	1,309	1,685	6.3
5. GLAUCOMA	660	865	1,525	5.7
6. OPTIC NERVE ATROPHY	603	506	1,109	4.1
7. RETINITIS PIGMENTOSA	465	436	901	3.3
8. OTHER AFFECTIONS OF THE OPTIC PATHWAY	460	417	877	3.3
9. RETINAL AFFECTION W/OTHER COMBINATION	217	471	688	2.6
10. MYOPIA	259	412	671	2.5
11. MULTIPLE CONG. OCULAR MALFORMATIONS	323	336	659	2.4
12. GLAUCOMA WITH CATARACT	190	430	620	2.3
13. RETROLENTAL FIBROPLASIA	256	258	514	1.9
14. GLAUCOMA W/RETINAL AFFECTION	156	336	492	1.8
15. OPTIC NEURITIS	198	192	390	1.5
16. CATARACT WITH OTHER COMBINATION	111	274	385	1.4
17. OTHER AFFECTIONS OF THE RETINA	180	185	365	1.3
18. GLAUCOMA, CATARACT W/RETINAL AFFECTION	96	236	332	1.2
19. NYSTAGMUS	138	157	295	1.1
20. ALBINISM	152	131	283	1.0
ALL OTHER MULTIPLE AFFECTIONS	163	141	304	1.1
ALL OTHER DIAGNOSES	978	1,239	2,217	8.2
UNKNOWN DIAGNOSES	270	311	581	2.2
TOTAL	10,067	16,913	26,980	100.0

DIAGNOSES - TOTAL REGISTER

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>RETINA</u>			
MACULAR DEGENERATION	2,417	5,618	8,035
DIABETIC RETINOPATHY	821	1,534	2,355
RETINITIS PIGMENTOSA	465	436	901
RETROLENTAL FIBROPLASIA	256	258	514
DETACHED RETINA	135	96	231
OTHER RETINAL DEGENERATION	77	144	221
OTHER AFFECTIONS OF THE RETINA	180	185	365
<u>EYEBALL IN GENERAL</u>			
GLAUCOMA	660	865	1,525
MYOPIA	259	412	671
ALBINISM	152	131	283
MICROPHTHALMOS	17	30	47
HYDROPHTHALMOS	43	44	87
MULTIPLE CONGENITAL MALFORMATIONS	323	336	659
ATROPHIC GLOBE	38	25	63
ANOPHTHALMOS	18	10	28
OTHER AFFECTIONS OF THE EYEBALL	44	29	73
<u>OPTIC NERVE</u>			
OPTIC NERVE ATROPHY	603	506	1,109
NYSTAGMUS	138	157	295
OPTIC NEURITIS	198	192	390
OTHER AFFECTIONS OF OPTIC PATHWAY	460	417	877
OTHER AFFECTIONS OF OPTIC NERVE	79	80	159
<u>LENS</u>			
CATARACT	578	1,119	1,697
DISLOCATED LENS	17	18	35
OTHER AFFECTIONS OF THE LENS	3	1	4
<u>VITREOUS</u>			
VITREOUS HEMORRHAGE	24	25	49
OTHER AFFECTIONS OF THE VITREOUS	14	12	26

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>CORNEA</u>			
KERITITIS	44	79	123
CORNEAL DYSTROPHY	40	113	153
KERATOCONUS	27	30	57
OTHER AFFECTIONS OF THE CORNEA	96	124	220
<u>UVEAL TRACT</u>			
CHORIORETINITIS	91	139	230
UVEITIS, IRITIS, CHOROIDITIS	45	87	132
OTHER AFFECTIONS OF THE IRIS/CHOROID	69	75	144
<u>AMBLYOPIA</u>	57	78	135
<u>MULTIPLE AFFECTIONS</u>			
GLAUCOMA WITH CATARACT	190	430	620
GLAUCOMA WITH RETINAL AFFECTION	156	336	492
CATARACT WITH RETINAL AFFECTION	376	1,309	1,685
GLAUCOMA, CATARACT & RETINAL AFF.	96	236	332
GLAUCOMA WITH OTHER AFFECTIONS	65	81	146
CATARACT WITH OTHER AFFECTIONS	111	274	385
RETINAL AFFECTIONS w/OTHER COMBINATIONS	217	471	688
ALL OTHER MULTIPLE AFFECTIONS	98	60	158
<u>SITE & TYPE OF AFFECTIONS UNKNOWN</u>	270	311	581
 TOTAL	 10,067	 16,913	 26,980

1988 REGISTRATION - DIAGNOSES BY AGE GROUPS

	0-6		7-13		14-22		23-64		65-74		75+		TOTAL		%	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Macular Degeneration	2		2		1	2	3	5	19	18	64	91	231	630	16	40
Diabetic Retinopathy					1	1	15	16	35	53	29	52	14	42	4	7
Cataract w/Retinal aff.								1	6	8	8	15	35	125	1	5
Glaucoma							5	3	8	5	13	14	34	59	1	4
Retina aff. w/other combo	1	1					4	2	2	11	4	15	25	44		3
Cataract	2	1				1	2	1	7	5	3	11	14	52	1	2
Other aff. of Optic Path.	13	7	4	2	4	4	7	1	8	8	9	7	6	14		1
Other aff. of the Retina	3	2		1		3	10	3	3	3	2	5	5	28	2	4
Optic Nerve Atrophy	8	3	3	3	5	2	6	9	8	2	4	2	2	8	4	
Glau & Ret. Aff. w/o other									1		2	9	10	44		3
Glau & Cat w/o other aff.									3	3	5	8	17	29	1	2
Other Retinopathy					1		1	1	2	4	9	3	3	19		4
Glau, Cat, & Ret. Aff.					1						1		7	32	2	1
Optic Neuritis	2	1	1	1			2	6	6	4	5	3	3	5	1	
Cataract with other combo							1	2	8	1	3	4	6	15		
Mult. Cong. Ocular Mal.	3	10	3	3	3	4	2	7		1				1		
Myopia			1	1		1	4	3	2	5	2	6	2	6	2	2
Retinitis Pigmentosa					2	2	10	6	2	3	3	2	1	3	1	
Other Aff. of Cornea/Scl.		1	1	1			2	3	1	1	2	5	2	9		1
Detached Retina						1	1	3	2	1	2	2	1	4		1
Other Aff. of Optic Nerve	4	5	1				2		1	2	1		1			
Retrolental Fibroplasia	2	7	1	1		1	1	2								
Other Aff. Iris/Choroid	1	1		1			1		2	1	2	1	3	2		
Albinism	3	1	1	2	1		1			1						
Nystagmus		1		3		2	3								1	
All other diagnoses			1		2	2	5	3	1	5	1	6	6	9		1
Unknown diagnoses		4					1	5	1	3	2	4	2	5		
Total	44	45	19	19	21	26	89	82	128	148	176	265	430	1,185	37	81
								</								

DIAGNOSES - 1988 REGISTRATIONS

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>RETINA</u>			
MACULAR DEGENERATION	338	786	1,124
DIABETIC RETINOPATHY	98	171	269
RETINITIS PIGMENTOSA	19	16	35
RETROLENTAL FIBROPLASIA	4	11	15
DETACHED RETINA	6	12	18
OTHER RETINAL DEGENERATION	11	40	51
OTHER AFFECTIONS OF THE RETINA	30	40	70
<u>EYEBALL IN GENERAL</u>			
GLAUCOMA	61	85	146
MYOPIA	13	24	37
ALBINISM	6	4	10
MICROPHTHALMOS	1	-	1
HYDROPHTHALMOS	1	3	4
MULTIPLE CONGENITAL MALFORMATIONS	11	26	37
ATROPHIC GLOBE	-	1	1
ANOPHTHALMOS	-	-	-
OTHER AFFECTIONS OF THE EYEBALL	-	2	2
<u>OPTIC NERVE</u>			
OPTIC NERVE ATROPHY	40	29	69
NYSTAGMUS	4	6	10
OPTIC NEURITIS	20	20	40
OTHER AFFECTIONS OF OPTIC PATHWAY	51	44	95
OTHER AFFECTIONS OF OPTIC NERVE	10	7	17
<u>LENS</u>			
CATARACT	29	73	102
DISLOCATED LENS	-	-	-
OTHER AFFECTIONS OF THE LENS	-	-	-
<u>VITREOUS</u>			
VITREOUS HEMORRHAGE	1	1	2
OTHER AFFECTIONS OF THE VITREOUS	-	-	-

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>CORNEA</u>			
KERITITIS	3	4	7
CORNEAL DYSTROPHY	1	7	8
KERATOCONUS	-	1	1
OTHER AFFECTIONS OF THE CORNEA	4	9	13
<u>UVEAL TRACT</u>			
CHORIORETINITIS	4	2	6
UVEITIS, IRITIS, CHOROIDITIS	3	1	4
OTHER AFFECTIONS OF THE IRIS/CHOROID	2	3	5
<u>AMBLYOPIA</u>	6	5	11
<u>MULTIPLE AFFECTIONS</u>			
GLAUCOMA WITH CATARACT	26	42	68
GLAUCOMA WITH RETINAL AFFECTION	13	56	69
CATARACT WITH RETINAL AFFECTION	50	154	204
GLAUCOMA, CATARACT & RETINAL AFF.	11	33	44
GLAUCOMA WITH OTHER AFFECTIONS	5	9	14
CATARACT WITH OTHER AFFECTIONS	18	22	40
RETINAL AFFECTIONS W/OTHER COMBINATIONS	36	76	112
ALL OTHER MULTIPLE AFFECTIONS	2	5	7
<u>SITE & TYPE OF AFFECTIONS UNKNOWN</u>	6	21	27
 TOTAL	 944	 1,851	 2,795

CLASSIFICATION BY ETIOLOGY

1988 REGISTRATIONS

DISEASES OR DISORDERS NOT ELSEWHERE CLASSIFIED	1,668	59.7%
ETIOLOGY INDEFINITE OR NOT REPORTED	872	31.2%
PRENATAL INFLUENCE NOT ELSEWHERE CLASSIFIED	172	6.1%
INJURIES/POISONINGS	42	1.5%
INFECTIOUS DISEASES	25	0.9%
NEOPLASMS	15	0.6%
TOTAL	2,795	100.0%

DISEASES OR DISORDERS
NOT ELSEWHERE CLASSIFIED

CLASSIFICATION BY ETIOLOGY

1988 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
ANEMIA / BLOOD DISEASE	1								1
DIABETES MELLITUS			2	34	95	94	58	14	297
SENILE DEGEN., REPORTED					8	78	488	17	591
SENILE DEGEN., ASSUMED					26	90	501	6	623
CEREBROVASCULAR CONDITION				2	11	13	19	1	46
OTHER DISEASE OF THE CIRCULATORY SYSTEM	1			3	10	20	23	1	58
MULTIPLE SCLEROSIS				8	6	1			15
OTHER DEMYELINATING DISEASE					1				1
OTHER DISEASE OF THE CENTRAL NERVOUS SYSTEM	8	2	5	2	2			2	21
PSYCHOGENIC DISORDER					1				1
NONINFECTIOUS INFLAMMATORY DISEASE		2		1	1	1			5
OTHER SPECIFIED DISEASE OR DISORDER	1		1	3		1	2	1	9
Total	11	4	8	53	161	298	1,091	42	1,668

CLASSIFICATION BY LIQUOR

INFECTIOUS DISEASES

1988 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
HERPES SIMPLEX						1			1
HERPES ZOSTER				2			1		3
RUBELLA				1					1
TOXOPLASMOSIS, PRENATAL	1				2				3
OTHER IDENTIFIED INFECTIOUS DISEASE				9	4	1		1	15
OTHER UNIDENTIFIED INFECTIOUS DISEASE							2		2
TOTAL	1			12	6	2	3	1	25
-26-									
<u>NEOPLASMS</u>									
RETINOBLASTOMA	1								1
PHAKOMATOSIS			1	2				1	4
NEOPLASM OF PITUITARY GLAND OR STALK					1				1
OTHER INTRACRANIAL NEOPLASM				1		3			4
OTHER NEOPLASM	1		1	2	1		1		6
TOTAL	2		2	5	2	3	1		16

INJURIES/POISONINGS

CLASSIFICATION BY ETIOLOGY

1988 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
RECREATION ACTIV., OXYGEN	1	1							2
TRANSPORTATION, BLOW/FALL		2							4
TRANSPORTATION, UNSPEC.			1						4
BIRTH PROCESS, OXYGEN	5			1					5
SURG/MED., OXYGEN					1		1		2
VIOLENCE, BLOW/FALL	1								1
OTHER ACTIV., RADIATION		1		1	1				2
" OXYGEN									1
UNSPECIFIED ACTIVITY, FIREARM				2					2
UNSPECIFIED ACTIVITY, OTHER EXPLOSIVE						1			1
UNSPECIFIED ACTIVITY, BLOW OR FALL								1	1
UNSPECIFIED ACTIVITY, FOREIGN BODY IN EYE							1		1
UNSPECIFIED ACTIVITY, OXYGEN	1			2				1	4
UNSPECIFIED ACTIVITY, OTHER TOXIC AGENT				2					2
UNSPECIFIED INJURY OR POISONING	1	1	2	3	3				10
TOTAL	9	5	4	14	5	1	2	2	42

ETIOLOGY INDEFINITE
OR NOT REPORTED

CLASSIFICATION BY ETIOLOGY
1988 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
UNKNOWN TO SCIENCE		1	1	10	14	29	102	8	165
SENILE DEGENERATION & OTHER ETIOLOGY EXCEPT DIABETES MELLITUS					9	19	45		73
SENILE DEGENERATION & DIABETES MELLITUS W/NO OTHER ETIOLOGY					29	52	312	7	400
ALL OTHER MULTIPLE ETIOLOGIES			2	2	1	2			7
ETIOLOGY NOT REPORTED OR ESTABLISHED	17	7	4	29	35	29	53	53	227
¹ TOTAL	17	8	7	41	88	131	512	68	872

PERINATAL INFLUENCE
NOT ELSEWHERE CLASSIFIED

HEREDITARY ORIGIN, OCCURRENCE IN GENETIC FAMILY REPORTED	1	1		3	1		1		7
HEREDITARY ORIGIN, OCCURRENCE IN GENETIC FAMILY NOT REPORTED	21	13	19	38	12	6	3	4	116
CONGENITAL ORIGIN NOT ELSEWHERE CLASSIFIED	27	7	7	5	1		2		49
TOTAL	49	21	26	46	14	6	6	4	172

VISUAL ACUITY - 1988 REGISTRATIONS

	0-6		7-13		14-22		23-44		45-64		65-74		75-84		85+		UNK.		TOTAL	%
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
ABSOLUTE BLINDNESS	7	6	3	1	1	3	8	3	4	1	2	5	2	8		5		1	60	2.1
LIGHT PERCEPTION	9	12	1		1	3	1		3		1	5	4	9	5	9	1	2	66	2.4
LIGHT PROJECTION														2		1			3	0.1
LESS THAN 5/200	2	2	1		3	3	11	12	22	15	22	36	29	100	21	128	3	17	427	15.3
5/200 - 9/200	1	1				1	3	3	4	9	10	14	18	42	17	52	4	5	184	6.6
10/200 - 19/200	13	17	8	7	5	4	21	24	29	42	59	92	104	214	70	141	9	20	879	31.4
20/200	12	7	6	10	8	11	29	28	51	68	67	100	78	242	56	183	16	31	1,003	35.9
RESTRICTED FIELDS				1	3	1	16	12	15	13	15	13	16	27	10	22	4	5	173	6.2
UNKNOWN																				
	44	45	19	19	21	26	89	82	128	148	176	265	251	644	179	541	37	81	2,795	
TOTAL	89		38		47		171		276		441		895		720		118		2,795	100.0

RACE/ETHNIC DISTRIBUTION - 1983 REGISTRATIONS

AGE	WHITE	BLACK	HISPANIC	ASIAN/ ORIENTAL	UNKNOWN	AGE GROUP TOTAL	MINORITY % WITHIN AGE GROUP
0 - 6	30	2	3	1	53	89	6.7
7 - 13	9	2	1	-	26	38	7.9
14 - 22	18	2	2	-	25	47	8.5
23 - 44	79	11	7	6	68	171	14.0
45 - 64	138	12	10	4	112	276	9.4
65 - 74	232	13	3	1	192	441	3.9
75 - 84	473	12	1	1	408	895	1.6
85 & OVER	370	7	2	1	340	720	1.4
UNKNOWN	16	3	-	-	99	118	2.5
TOTAL	1,365	64	29	14	1,323	2,795	
PERCENT	48.8	2.3	1.0	0.6	47.3	100.0	

REGION	WHITE	BLACK	HISPANIC	ASIAN/ ORIENTAL	UNKNOWN	REGIONAL TOTAL	REGIONAL MINORITY PERCENTAGE
I	158	6	9	1	197	371	4.3
II	180	1	6	1	126	314	2.5
III	266	11	6	4	279	566	3.7
IV	327	3	1	-	315	646	0.6
V	282	3	3	2	257	547	1.5
VI	152	40	4	6	149	351	14.2
TOTAL	1,365	64	29	14	1,323	2,795	
PERCENT	48.8	2.3	1.0	0.6	47.3	100.0	

1988 REGISTER REMOVALS

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 - 6	11	8	19	0.8
7 - 13	7	4	11	0.4
14 - 22	8	8	16	0.6
23 - 44	49	41	90	3.6
45 - 64	92	65	157	6.2
65 - 74	117	132	249	9.9
75 - 84	221	326	547	21.7
85 & OVER	390	949	1,339	53.0
UNKNOWN	38	59	97	3.8
TOTAL	933	1,592	2,525	100.0

REMOVAL CAUSE

DEATH	779	1,296	2,075	82.2
OUT OF STATE	82	133	215	8.5
NOT BLIND	17	19	36	1.4
UNLOCATED	55	143	198	7.8
DUPLICATE	-	1	1	0.1
TOTAL	933	1,592	2,525	100.0

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MASSACHUSETTS
COMMISSION FOR THE BLIND
1989

REPORT OF THE REGISTER

GOVERNMENT DOCUMENTS
COLLECTION
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CHARLES H. CRAWFORD
COMMISSIONER

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INTRODUCTION

THE MASSACHUSETTS COMMISSION FOR THE BLIND REPORT OF THE REGISTER COVERS THE PERIOD JANUARY 1 - DECEMBER 31, 1989. THIS REPORT PRESENTS STATISTICS FOR THE TOTAL AND NEWLY REGISTERED BLIND POPULATION ON THE FOLLOWING CHARACTERISTICS:

- TOTAL POPULATION
- REGIONAL DISTRIBUTIONS
- AGE DISTRIBUTIONS
- SITE AND TYPE OF AFFECTIONS
- ETIOLOGIES (CAUSES OF BLINDNESS)
- VISUAL ACUITIES
- RACE/ETHNIC DISTRIBUTIONS
- REMOVALS

TOTAL POPULATION

THE 1989 REGISTER OF THE COMMISSION FOR THE BLIND REPRESENTS A TOTAL OF 28,750 LEGALLY BLIND PERSONS. ALTHOUGH THIS TOTAL REFLECTS AN OVERALL INCREASE OF 6.6 PERCENT, IT SHOULD BE NOTED THAT THIS INCREASE IS RELATED TO THE LOW RATE OF REMOVALS COMPLETED IN 1989. THE REGIONAL DISTRIBUTION OF THE TOTAL REGISTER REMAINS BASICALLY THE SAME AS IN PREVIOUS YEARS. REGION IV REPRESENTS THE LARGEST OR 23.2 PERCENT AND REGION II THE SMALLEST OR 11.4 PERCENT OF THE TOTAL BLIND POPULATION. THE RATE OF INCREASE WAS THE HIGHEST, 8.5 PERCENT IN REGION II AND THE LOWEST, 3.1 PERCENT IN REGION VI.

REGIONAL DISTRIBUTION OF 1989 REGISTRATIONS

THE 2,830 NEW REGISTRATIONS REPRESENTS A 1.3 PERCENT INCREASE OVER THE PREVIOUS YEAR. THE NUMBER OF NEW REGISTRATIONS INCREASED IN REGIONS I, II, AND III WHILE DECREASING IN REGIONS, IV, V, AND VI. REGION I WITH 11.3 PERCENT ACCOUNTED FOR THE LARGEST REGIONAL INCREASE WHILE REGION IV WITH 5.5 PERCENT REFLECTED THE LARGEST REGIONAL DECREASE IN NEW REGISTRATIONS.

AGE DISTRIBUTIONS

THE AGING FACTOR CONTINUES TO BE A NOTABLE CHARACTERISTIC OF BOTH THE TOTAL AND NEW REGISTRATIONS WITH PERSONS AGES 65 AND OVER REPRESENTING 66.6 PERCENT AND 74.2 PERCENT OF THE TOTAL AND NEW REGISTRATIONS RESPECTIVELY. IN COMPARISON TO THE TOTAL BLIND POPULATION, THE AGING TREND IS EVEN GREATER AMONG THE NEW REGISTRANTS WHERE AT THE TIME OF INITIAL REGISTRATION, PERSONS AGES 75 AND OVER REPRESENTED 59.2 PERCENT OF ALL NEW REGISTRANTS.

A COMPARISON OF THE AGE DISTRIBUTION OF THE NEWLY REGISTERED POPULATION IN 1983 AND 1989 SHOWS SLIGHT DECREASES IN ALL AGE GROUPS EXCEPT THE GROUP AGES 65 - 84 WHERE THERE HAS BEEN A SLIGHT INCREASE OF 2.3 PERCENT DURING THE FIVE YEAR PERIOD.

THE REGIONAL AGE DISTRIBUTION OF THE '89 REGISTRATIONS REVEALS SOME VARIATION IN THE AGE CATEGORIES WITH THE LARGEST VARIATION BEING IN REGION VI WHERE 24.8 PERCENT OF THE NEW REGISTRANTS WERE AGES 14 - 64. WITHIN THIS SAME AGE GROUP, OTHER REGIONAL NEW REGISTRATIONS RANGED FROM 13.9 PERCENT IN REGION IV TO 19.1 PERCENT IN REGION I. PERSONS AGES 65 AND OVER REPRESENTED 68 PERCENT OF THE NEW REGISTRATIONS IN REGION VI, WHILE 77 PERCENT OF THE NEW REGISTRANTS IN REGION IV WERE AGES 65 AND OVER. APPROXIMATELY 75 PERCENT OF ALL NEW REGISTRANTS IN REGIONS I, II, III AND V WERE AGES 65 AND OVER AT THE TIME OF REGISTRATION. CHILDREN AGES 0 - 13 REPRESENTED 5.8 PERCENT OF THE NEW REGISTRANTS IN REGION I, WHILE REGION V WITH 3.6 PERCENT HAD THE LOWEST PERCENTAGE OF NEW REGISTRANTS IN THIS YOUNGEST AGE GROUP.

SITE AND TYPE OF AFFECTIONS

THE CONTINUING INCREASE IN THE ELDERLY POPULATION IS AGAIN REFLECTED IN THE DIAGNOSES REPORTED AMONG BOTH THE TOTAL AND NEWLY REGISTERED. DIAGNOSES RELATED TO THE AGING PROCESS, MACULAR DEGENERATION, CATARACT AND CATARACTS WITH RETINAL AFFECTION REPRESENT 43.2 PERCENT AND 53.1 PERCENT OF THE TOTAL AND NEW REGISTRATIONS RESPECTIVELY.

DIABETIC RETINOPATHY CONTINUES TO BE A PRIMARY DIAGNOSIS AMONG BOTH THE TOTAL AND NEW REGISTRANTS, REPRESENTING 8.7 PERCENT AND 9.7 PERCENT RESPECTIVELY. DIABETIC RETINOPATHY ALSO CONTINUES TO BE THE MOST FREQUENTLY REPORTED DIAGNOSIS AMONG NEW REGISTRANTS AGES 23 - 64, ACCOUNTING FOR 27.9 PERCENT OF THE NEWLY REGISTERED WITHIN THIS AGE GROUP.

OPTIC NERVE ATROPHY, AFFECTIONS OF THE OPTIC NERVE AND OPTIC PATHWAY OR VISUAL CENTER REPRESENT 33.9 PERCENT OF THE DIAGNOSES REPORTED AMONG NEW REGISTRANTS AGES 0 - 22. MULTIPLE CONGENITAL OCULAR MALFORMATIONS TOGETHER WITH ALBINISM REPRESENT 20.8 PERCENT OF THE DIAGNOSES REPORTED WITHIN THIS AGE GROUP.

ETIOLOGY (CAUSES OF BLINDNESS)

ETIOLOGIES ATTRIBUTED TO SENILE DEGENERATION, AS WELL AS DISEASES SUCH AS DIABETES MELLITUS, MULTIPLE SCLEROSIS, CEREBROVASCULAR CONDITIONS AND A VARIETY OF OTHER DISEASES REPRESENT 62.2 PERCENT OF ALL CAUSES OF BLINDNESS REPORTED IN 1989. ETIOLOGIES FOR WHICH THE EXACT CAUSE IS EITHER UNKNOWN TO SCIENCE OR NOT REPORTED REPRESENT 28.3 PERCENT OF THE NEWLY REGISTERED AND INCLUDE DIAGNOSES SUCH AS GLAUCOMA, RETINITIS PIGMENTOSA, RETROLENTAL FIBROPLASIA, AFFECTIONS OF THE OPTIC NERVE AND SO FORTH. IN MANY INSTANCES, ALTHOUGH A DIAGNOSIS WAS REPORTED, THE SPECIFIC CAUSE OF BLINDNESS WAS NOT INDICATED. ETIOLOGIES OF HEREDITARY OR CONGENITAL ORIGIN RESULTING IN DIAGNOSES SUCH AS RETINITIS PIGMENTOSA, MYOPIA, ALBINISM, ETC. REPRESENT 6.2 PERCENT OF THE CAUSES REPORTED IN '89. INJURIES/POISONINGS, INFECTIOUS DISEASES AND NEOPLASMS REPRESENT 1.5, 1.0 AND 0.8 PERCENT RESPECTIVELY. ETIOLOGIES WITHIN THESE CLASSIFICATIONS INCLUDE ACTS OF VIOLENCE, FIREARMS, A VARIETY OF TRAFFIC, RECREATIONAL AND OTHER ACCIDENTS, RUBELLA, ACQUIRED IMMUNE DEFICIENCY SYNDROME AND A VARIETY OF NEOPLASMS. THE NUMBER OF AIDS RELATED ETIOLOGIES REPORTED IN '89 WAS DOWN TO FIVE, COMPARED TO TWELVE IN 1988.

VISUAL ACUITY OF 1989 REGISTRATIONS

THE VISUAL ACUITY CLASSIFICATIONS REMAIN BASICALLY THE SAME AS IN PREVIOUS YEARS, WITH 69.6 PERCENT OF THE NEWLY REGISTERED HAVING A REPORTED ACUITY RANGING BETWEEN 10/200 - 20/200. FIVE PERCENT WERE REPORTED AS HAVING LIGHT PERCEPTION OR LESS AT THE TIME OF INITIAL REGISTRATION.

RACE/ETHNIC DISTRIBUTION OF 1989 REGISTRATIONS

DATA COLLECTED ON THE RACE/ETHNIC DISTRIBUTION OF THE '89 REGISTRANTS WAS OBTAINED FROM THE INITIAL EYE REPORTS USED FOR REGISTRATION PURPOSES. AS IN THE PREVIOUS TWO YEARS, ONLY 52.5 PERCENT OF THE INITIAL REPORTS INCLUDED RACE. BASED ON REPORTS REPORTING RACE, 48.2 PERCENT WERE WHITE, WHILE 8.2 PERCENT WERE NON-WHITE. AGAIN BASED ONLY ON THE NEW REGISTRANTS FOR WHOM RACE WAS REPORTED, THE DISTRIBUTION OF NON-WHITES BY AGE GROUPS INDICATES A HIGH OF 24.4 PERCENT WERE AGES 14 - 22, WHILE THE LOWEST PERCENTAGE, 1.5, WERE AGES 85 AND OVER. THE REGIONAL DISTRIBUTION OF THE NON-WHITE POPULATION RANGES FROM A HIGH OF 26.6 PERCENT IN REGION VI TO THE LOWEST PERCENTAGE, 3.1, IN REGION IV.

REGISTER REMOVALS

THE 1,060 REMOVALS COMPLETED IN 1989 REPRESENTS OF 58.0 PERCENT DECREASE OVER THE PREVIOUS YEAR. THIS DECREASE IS ATTRIBUTED TO THE FACT THAT A STATEWIDE CENSUS OF THE BLIND REGISTER WAS NOT COMPLETED IN 1989, THUS INFLATING THE TOTAL REGISTER BY APPROXIMATELY THREE PERCENT. DEATH CONTINUES TO BE THE PRIMARY CAUSE OF REMOVAL WITH THE MAJORITY OF THOSE REMOVED BEING 75 YEARS OF AGE AND OLDER.

REGIONAL DISTRIBUTION
TOTAL REGISTER

REGION I	3,694	12.8%
REGION II	3,279	11.4%
REGION III	5,872	20.4%
REGION IV	6,670	23.2%
REGION V	5,251	18.3%
REGION VI	3,984	13.9%
TOTAL	28,750	100.0%

REGION I

ADAMS	42	HANCOCK	-	PITTSFIELD	293
AGAWAM	116	HATFIELD	9	PLAINFIELD	-
ALFORD	-	HAWLEY	-	RICHMOND	2
AMHERST	81	HEATH	-	ROWE	-
ASHFIELD	3	HINSDALE	11	ROYALSTON	5
ATHOL	73	HOLYOKE	271	RUSSELL	4
BECKET	2	HUNTINGTON	7	SANDISFIELD	3
BELCHERTOWN	22	LANESBORO	14	SAVOY	1
(STATE SCHOOL)	58	LEE	20	SHEFFIELD	8
BERNARDSTON	5	LENOX	44	SHELBURNE	20
BLANDFORD	2	LEVERETT	3	SHUTESBURY	-
BUCKLAND	-	LEYDON	1	SOUTHAMPTON	10
CHARLEMONT	5	LONGMEADOW	59	SOUTH HADLEY	61
CHESHIRE	9	LUDLOW	52	SOUTHWICK	10
CHESTER	5	MIDDLEFIELD	1	SPRINGFIELD	807
CHESTERFIELD	2	MONROE	-	STOCKBRIDGE	14
CHICOPEE	232	MONSON	14	SUNDERLAND	7
CLARKSBURG	6	MONTAGUE	44	TOLLAND	2
COLRAIN	5	MONTEREY	5	TYRINGHAM	-
CONWAY	6	MONTGOMERY	2	WARE	40
CUMMINGTON	1	MOUNT WASHINGTON	-	WARWICK	7
DALTON	36	NEW ASHFORD	-	WASHINGTON	2
DEERFIELD	15	NEW MARLBOROUGH	2	WENDELL	-
EASTHAMPTON	62	NEW SALEM	-	WESTFIELD	132
EAST LONGMEADOW	47	NORTH ADAMS	88	WESTHAMPTON	3
EGREMONT	1	NORTHAMPTON	160	WEST SPRINGFIELD	116
ERVING	1	(STATE HOSPITAL)	3	WEST STOCKBRIDGE	5
FLORIDA	-	NORTHFIELD	13	WHATELY	1
GILL	3	ORANGE	48	WILBRAHAM	42
GOSHEN	-	OTIS	1	WILLIAMSBURG	6
GRANBY	19	PALMER	53	WILLIAMSTOWN	48
GRANVILLE	5	(STATE SCHOOL)	48	WINDSOR	1
GREAT BARRINGTON	59	PELHAM	-	WORTHINGTON	3
GREENFIELD	110	PERU	-		
HADLEY	16	PETERSHAM	3		
HAMPDEN	13	PHILLIPSTON	3	TOTAL	3,594

REGION II

ASHBURNHAM	13	HARVARD	8	SHIRLEY	17
ASHBY	6	HOLDEN	45	SHREWSBURY	96
AUBURN	54	HOLLAND	1	SOUTHBRIDGE	75
AYER	50	HOPEDALE	25	SPENCER	51
BARRE	21	HUBBARDSTON	1	STERLING	24
BELLINGHAM	27	LANCASTER	29	STURBRIDGE	19
BERLIN	7	LEICESTER	28	SUTTON	18
BLACKSTONE	21	LEOMINSTER	148	TEMPLETON	26
BOLTON	7	LUNENBERG	14	TOWNSEND	13
BOYLSTON	14	MEDWAY	26	UPTON	15
BRIMFIELD	7	MENDON	10	UXBRIDGE	49
BROOKFIELD	14	MILFORD	114	WALES	4
CHARLTON	33	MILLBURY	55	WARREN	18
CLINTON	61	MILLVILLE	4	WEBSTER	82
DOUGLAS	16	NEW BRAINTREE	-	WEST BOYLSTON	22
DUDLEY	30	NORTHBRIDGE	70	WEST BROCKFIELD	23
EAST BROOKFIELD	3	NORTH BROCKFIELD	14	WESTMINSTER	19
FITCHBURG	241	OAKHAM	2	WINCHENDON	41
FRANKLIN	59	OXFORD	52	WORCESTER	1,031
GARDNER	117	PAXTON	6	(STATE HOSPITAL)	14
GRAFTON	56	PEPPERELL	15		
GROTON	63	PRINCETON	5		
HARDWICK	13	RUTLAND	17	TOTAL	3,279

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REGION III

AMESBURY	82	IPSWICH	52	REVERE	282
ANDOVER	112	LAWRENCE	327	ROCKPORT	47
BEVERLY	193	LOWELL	453	ROWLEY	17
BILLERICA	119	LYNN	464	SALEM	237
BOXFORD	9	LYNNFIELD	28	SALISBURY	33
CHELMSFORD	104	MALDEN	319	SAUGUS	115
CHELSEA	172	MANCHESTER	21	STONEHAM	84
(SOLDIER'S HOME)	8	MARBLEHEAD	84	SWAMPSCOTT	65
DANVERS	116	MEDFORD	285	TEWKSBURY	105
(STATE HOSPITAL)	14	MELROSE	178	TOPSFIELD	15
(HOGAN CENTER)	17	MERRIMAC	14	TYNGSBORO	14
DRACUT	58	METHUEN	156	WAKEFIELD	90
DUNSTABLE	2	MIDDLETON	18	WENHAM	12
ESSEX	11	NAHANT	18	WESTFORD	32
EVERETT	194	NEWBURY	8	WEST NEWBUR	8
GEORGETOWN	20	NEWBURYPORT	76	WINTHROP	144
GLOUCESTER	122	NORTH ANDOVER	72		
GROVELAND	15	NORTH READING	45		
HAMILTON	23	PEABODY	222		
HAVERHILL	254	READING	87	TOTAL	5,872

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REGION IV

ACTON	35	LEXINGTON	164	SOUTHBORO	10
ARLINGTON	259	LINCOLN	18	STOW	16
ASHLAND	28	LITTLETON	27	SUDBURY	32
BEDFORD	54	MARLBORO	124	WALPOLE	46
BELMONT	181	MAYNARD	39	WALTHAM	304
(FERNALD)	150	MEDFIELD	25	WATERTOWN	279
BOXBORO	4	(STATE HOSPITAL)	4	(PERKINS)	13
BRAINTREE	210	MILLIS	15	WAYLAND	42
BURLINGTON	60	MILTON	143	WELLESLEY	96
CAMBRIDGE	524	NATICK	121	WESTBORO	61
CANTON	76	NEEDHAM	144	(STATE HOSPITAL)	10
CARLISLE	6	NEWTON	424	WESTON	33
COHASSET	34	NORFOLK	17	WESTWOOD	40
CONCORD	89	NORTHBORO	29	WEYMOUTH	262
DEDHAM	112	NORWELL	31	WILMINGTON	62
DOVER	4	NORWOOD	170	WINCHESTER	81
FOXBORO	52	PLAINVILLE	29	WOBURN	133
FRAMINGHAM	299	QUINCY	490	WRENTHAM	42
HINGHAM	87	RANDOLPH	158	(STATE SCHOOL)	67
HOLLISTON	25	SCITUATE	75		
HOPKINTON	13	SHARON	56		
HUDSON	41	SHERBORN	6		
HULL	39	SOMERVILLE	350	TOTAL	6,670

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REGION V

ABINGTON	62	FREETOWN	20	PLYMPTON	6
ACUSHNET	26	GAY HEAD	1	PROVINCETOWN	22
ATTLEBORO	160	GOSNOLD	-	RAYNHAM	16
AVON	20	HALIFAX	28	REHOBOTH	15
BARNSTABLE	243	HANOVER	28	ROCHESTER	10
BERKLEY	6	HANSON	35	ROCKLAND	72
BOURNE	68	HARWICH	51	SANDWICH	50
BREWSTER	42	HOLBROOK	42	SEEKONK	31
BRIDGEWATER	46	KINGSTON	39	SOMERSET	93
BROCKTON	520	LAKEVILLE	20	STOUGHTON	101
CARVER	24	MANSFIELD	29	SWANSEA	71
CHATHAM	48	MARION	18	TAUNTON	162
CHILMARK	3	MARSHFIELD	59	(STATE HOSP.)	6
DARTMOUTH	103	MASHPEE	21	(P.A. DEVER)	61
DENNIS	79	MATTAPOISETT	32	TISBURY	16
DIGHTON	22	MIDDLEBORO	72	TRURO	5
DUXBURY	42	NANTUCKET	14	WAREHAM	81
EAST BRIDGEWATER	43	NEW BEDFORD	695	WELLFLEET	9
EASTHAM	18	NORTH ATTLEBORO	90	WEST BRIDGEWATER	23
EASTON	45	NORTON	32	WESTPORT	40
EDGARTOWN	5	OAK BLUFFS	17	WEST TISBURY	-
FAIRHAVEN	83	ORLEANS	40	WHITMAN	41
FALL RIVER	667	PEMBROKE	41	YARMOUTH	131
FALMOUTH	149	PLYMOUTH	241		
				TOTAL	5,251

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REGION VI

ALLSTON	94	EAST BOSTON	197	ROXBURY	288
BOSTON	645	HYDE PARK	181	SOUTH BOSTON	204
BRIGHTON	282	JAMAICA PLAIN	281	WEST ROXBURY	202
BROOKLINE	388	MATTAPAN	127		
		(STATE HOSPITAL)	14		
CHARLESTOWN	69	(CHRONIC ")	9		
DORCHESTER	724	ROSLINDALE	279	TOTAL	3,984

REGIONAL DISTRIBUTION - 1989 REGISTRATIONS

REGION I	413	14.6%
REGION II	326	11.5%
REGION III	602	21.3%
REGION IV	612	21.6%
REGION V	530	18.7%
REGION VI	347	12.3%
TOTAL	2,830	100.0%

REGIONAL DISTRIBUTION - 1989 REGISTRATIONS

	REGION I		REGION II		REGION III		REGION IV		REGION V		REGION VI		TOTALS		TOTAL, AGE GROUP	% OF AGE GROUP
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
0 - 6	5	13	9	3	13	7	7	14	5	7	6	5	45	49	94	3.3
7 - 13	2	4	1	-	4	4	3	4	6	1	2	2	18	15	33	1.2
14 - 22	4	2	2	3	6	4	5	1	3	6	2	3	22	19	41	1.5
23 - 44	9	14	9	4	17	18	15	19	17	14	22	11	89	80	169	6.0
45 - 64	21	29	17	15	32	15	21	24	23	39	22	26	136	139	275	9.7
65 - 74	24	41	8	32	42	59	33	65	25	46	20	30	152	273	425	15.0
75 - 84	34	86	30	88	58	119	50	141	55	112	25	80	252	626	878	31.0
85 & OVER	22	95	23	66	35	144	32	147	33	122	14	66	159	640	799	28.2
UNKNOWN	3	5	19	6	6	19	5	26	8	17	5	6	37	79	116	4.1
TOTAL	124	289	109	217	213	389	171	441	175	355	118	229	910	1920	2,830	100.0
REGIONAL TOTAL	413		326		602		612		530		347		2,830			
% OF 1989 REGISTRATIONS	14.6		11.5		21.3		21.6		18.7		12.3		100.0			

TOTAL REGISTER

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
0 - 6	208	200	408	1.4
7 - 13	284	251	535	1.9
14 - 22	414	312	726	2.5
23 - 44	1,825	1,557	3,382	11.8
45 - 64	1,721	1,654	3,375	11.7
65 - 74	1,581	2,206	3,787	13.2
75 - 84	2,032	4,274	6,306	21.9
85 & OVER	2,211	6,856	9,067	31.5
UNKNOWN	379	785	1,164	4.1
TOTAL	10,655	18,095	28,750	100.0

TOTAL REGISTER

	<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>
1989	18	12	6	1951	187	93	94	1913	518	196	322
1988	35	13	22	1950	178	102	76	1912	516	201	315
1987	50	26	24	1949	160	88	72	1911	604	212	392
1986	62	28	34	1948	156	89	77	1910	641	191	450
1985	74	43	31	1947	175	102	73	1909	652	212	440
1984	84	47	37	1946	168	89	79	1908	680	193	487
1983	85	39	46	1945	142	79	63	1907	712	206	506
1982	75	45	30	1944	126	72	54	1906	732	211	521
1981	80	44	36	1943	160	84	76	1905	761	218	543
1980	85	38	47	1942	144	80	64	1904	789	220	569
1979	76	37	39	1941	112	68	44	1903	800	214	586
1978	74	33	41	1940	127	70	57	1902	853	232	621
1977	77	50	27	1939	114	59	55	1901	739	196	543
1976	68	37	31	1938	120	69	51	1900	788	180	608
1975	70	38	32	1937	126	58	68	1899	630	151	479
1974	72	40	32	1936	143	85	58	1898	674	166	508
1973	54	30	24	1935	165	88	77	1897	615	139	476
1972	78	42	36	1934	156	95	61	1896	652	163	489
1971	82	55	27	1933	159	73	86	1895	514	114	400
1970	93	52	41	1932	173	71	102	1894	420	108	312
1969	84	45	39	1931	166	75	91	1893	358	78	280
1968	82	44	38	1930	189	95	94	1892	321	68	253
1967	111	68	43	1929	227	123	104	1891	268	61	207
1966	96	54	42	1928	231	115	116	1890	215	37	178
1965	123	59	64	1927	227	100	127	1889	169	48	121
1964	149	67	82	1926	234	101	133	1888	136	22	114
1963	145	84	61	1925	276	140	136	1887	63	14	49
1962	135	77	58	1924	302	142	160	1886	35	-	35
1961	132	63	69	1923	323	138	185	1885	9	-	9
1960	156	94	62	1922	317	142	175	1884	19	-	19
1959	127	66	61	1921	387	157	230	UNKNOWN	1,164	379	785
1958	162	88	74	1920	359	153	216				
1957	140	75	65	1919	365	154	211				
1956	152	86	66	1918	404	177	227				
1955	164	96	68	1917	435	176	259				
1954	165	89	76	1916	413	155	258				
1953	188	91	97	1915	472	187	285				
1952	172	94	78	1914	490	192	298	TOTAL	28,750	10,655	18,095

1989 REGISTRATIONS

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
0 - 6	45	49	94	3.3
7 - 13	18	15	33	1.2
14 - 22	22	19	41	1.5
23 - 44	89	80	169	6.0
45 - 64	136	139	275	9.7
65 - 74	152	273	425	15.0
75 - 84	252	626	878	31.0
85 & OVER	159	640	799	28.2
UNKNOWN	37	79	116	4.1
TOTAL	910	1,920	2,830	100.0

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1989 REGISTRATIONS

	<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>		<u>TOTAL</u>	<u>M</u>	<u>E</u>
1989	18	12	6	1951	5	3	2	1913	69	23	46
1988	23	7	16	1950	7	5	2	1912	89	28	61
1987	10	6	4	1949	8	2	6	1911	80	26	54
1986	17	7	10	1948	4	3	1	1910	84	25	59
1985	13	6	7	1947	3	3	5	1909	94	26	68
1984	6	2	4	1946	11	5	6	1908	80	18	62
1983	7	5	2	1945	5	3	2	1907	98	25	73
1982	2	1	1	1944	7	4	3	1906	111	26	85
1981	4	1	3	1943	10	5	5	1905	111	31	80
1980	5	2	3	1942	7	4	3	1904	101	23	78
1979	6	3	3	1941	8	5	3	1903	92	17	75
1978	3	2	1	1940	10	6	4	1902	104	23	81
1977	9	8	1	1939	10	6	4	1901	87	24	63
1976	4	1	3	1938	14	9	5	1900	78	12	66
1975	3	2	1	1937	10	6	4	1899	69	19	50
1974	2	-	2	1936	8	5	3	1898	48	6	42
1973	3	1	2	1935	13	6	7	1897	44	6	38
1972	7	2	5	1934	9	6	3	1896	47	9	38
1971	3	2	1	1933	13	6	7	1895	38	8	30
1970	7	5	2	1932	16	6	10	1894	27	1	25
1969	3	2	1	1931	9	3	6	1893	22	7	15
1968	4	2	2	1930	18	7	11	1892	14	1	13
1967	9	6	3	1929	24	13	11	1891	9	2	7
1966	6	3	3	1928	20	7	13	1890	7	1	6
1965	9	4	5	1927	22	11	11	1889	5	-	5
1964	10	2	8	1926	19	9	10	1888	3	-	3
1963	14	9	5	1925	28	12	16	1887	3	-	3
1962	4	3	1	1924	36	10	26	1886	1	-	1
1961	12	6	6	1923	23	11	12	1885			
1960	9	7	2	1922	29	8	21	1884			
1959	5	2	3	1921	44	15	29	UNKNOWN	116	37	79
1958	7	3	4	1920	35	10	25				
1957	6	1	5	1919	36	16	20				
1956	9	8	1	1918	56	22	34				
1955	7	2	5	1917	48	22	26				
1954	10	6	4	1916	59	16	43				
1953	5	3	2	1915	59	22	37				
1952	8	6	2	1914	62	24	38	TOTAL	2,830	910	1,920

DIAGNOSES - TOTAL REGISTER

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>%</u>
1. MACULAR DEGENERATION	2,640	6,267	8,907	31.0
2. DIABETIC RETINOPATHY	882	1,621	2,503	8.7
3. CATARACT AND RETINAL AFFECTION	410	1,346	1,756	6.1
4. CATARACT	593	1,160	1,753	6.1
5. GLAUCOMA	692	916	1,608	5.6
6. OPTIC NERVE ATROPHY	614	524	1,138	4.0
7. OTHER AFFECTIONS OF THE OPTIC PATHWAY	491	447	938	3.3
8. RETINITIS PIGMENTOSA	485	441	926	3.2
9. RETINAL AFFECTION W/OTHER COMBINATION	235	537	772	2.7
10. MULTIPLE CONGENITAL MALFORMATIONS	330	347	677	2.3
11. MYOPIA	259	417	676	2.3
12. GLAUCOMA AND CATARACT	195	461	656	2.3
13. GLAUCOMA AND RETINAL AFFECTION	173	362	535	1.9
14. RETROLENTAL FIBROPLASIA	259	264	523	1.8
15. OPTIC NEURITIS	217	206	423	1.5
16. OTHER AFFECTIONS OF THE RETINA	196	218	414	1.4
17. CATARACT IN ANY OTHER COMBINATION	114	287	401	1.4
18. GLAUCOMA, CATARACT AND RETINAL AFFECTION	99	242	341	1.2
19. NYSTAGMUS	141	156	297	1.0
20. ALBINISM	157	136	293	1.0
ALL OTHER MULTIPLE AFFECTIONS	168	150	318	1.1
ALL OTHER DIAGNOSES	1,031	1,273	2,304	8.0
UNKNOWN DIAGNOSES	274	317	591	2.1
TOTAL	10,655	18,095	28,750	100.0

DIAGNOSES - TOTAL REGISTER

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>RETINA</u>			
MACULAR DEGENERATION	2,640	6,267	8,907
DIABETIC RETINOPATHY	882	1,621	2,503
RETINITIS PIGMENTOSA	485	441	926
RETROLENTAL FIBROPLASIA	259	264	523
DETACHED RETINA	150	98	248
OTHER RETINAL DEGENERATION	92	163	255
OTHER AFFECTIONS OF THE RETINA	196	218	414
<u>EYEBALL IN GENERAL</u>			
GLAUCOMA	692	916	1,608
MYOPIA	259	417	676
ALBINISM	157	136	293
MICROPHTHALMOS	17	29	46
HYDROPHTHALMOS	44	43	87
MULTIPLE CONGENITAL MALFORMATIONS	330	347	677
ATROPHIC GLOBE	37	24	61
ANOPHTHALMOS	19	10	29
OTHER AFFECTIONS OF THE EYEBALL	45	30	75
<u>OPTIC NERVE</u>			
OPTIC NERVE ATROPHY	614	524	1,138
NYSTAGMUS	141	156	297
OPTIC NEURITIS	217	206	423
OTHER AFFECTIONS OF OPTIC PATHWAY	491	447	938
OTHER AFFECTIONS OF OPTIC NERVE	82	88	170
<u>LENS</u>			
CATARACT	593	1,160	1,753
DISLOCATED LENS	18	19	37
OTHER AFFECTIONS OF THE LENS	3	1	4
<u>VITREOUS</u>			
VITREOUS HEMORRHAGE	24	21	45
OTHER AFFECTIONS OF THE VITREOUS	13	12	25

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>CORNEA</u>			
KERITITIS	46	76	122
CORNEAL DYSTROPHY	44	118	162
KERATOCONUS	30	31	61
OTHER AFFECTIONS OF THE CORNEA	99	125	224
<u>UVEAL TRACT</u>			
CHORIORETINITIS	93	140	233
UVEITIS, IRITIS, CHOROIDITIS	46	90	136
OTHER AFFECTIONS OF THE IRIS/CHOROID	72	78	150
<u>AMBLYOPIA</u>	57	77	134
<u>MULTIPLE AFFECTIONS</u>			
GLAUCOMA AND CATARACT	195	461	656
GLAUCOMA AND RETINAL AFFECTION	173	362	535
CATARACT AND RETINAL AFFECTION	410	1,346	1,756
GLAUCOMA, CATARACT & RETINAL AFF.	99	242	341
GLAUCOMA IN ANY OTHER COMBINATION	70	87	157
CATARACT IN ANY OTHER COMBINATION	114	287	401
RETINAL AFFECTIONS IN ANY OTHER COMB.	235	537	772
ALL OTHER MULTIPLE AFFECTIONS	98	63	161
<u>SITE & TYPE OF AFFECTIONS UNKNOWN</u>	274	317	591
 TOTAL	 10,655	 18,095	 28,750

1989 ILLINOIS - DIAGNOSES BY AGE GROUPS

	0-6		7-13		14-22		23-44		45-64		65-74		75+		Total						
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	%				
Macular Degeneration			1	1			3	4	6	13	29	58	105	216	705	14	37	106	886	1,192	42.1
Diabetic Retinopathy					1				14	43	46	25	61	11	36	3	10	104	162	273	9.7
Cataract w/Retinal Aff.							2	2		6	7	7	14	29	97	4	2	48	120	168	5.9
Glaucoma							1	2	2	7	6	12	17	39	70	1	5	60	100	160	5.7
Cataract	2	4	1				1	2	2	7	4	6	12	17	81	3	3	38	107	145	5.1
Retinal aff. w/other comb	1	1					1	1	2	6	7	5	11	15	53	1	2	29	77	106	3.8
Other aff. of Optic Path.	10	13	4	5	2	1	2			12	5	6	6	8	10	3	2	47	42	89	3.1
Glau. & Ret. aff. w/o other										1	1	2	6	19	41			22	48	70	2.5
Glau. & Cat. w/out other										1	1	2	7	10	46		1	13	55	68	2.4
Other Aff. of the Retina	3	1			2		3	2	2	1	1	7	6	10	19	3		29	29	58	2.1
Optic Nerve Atrophy	3	4	2	1	2	1	12	7	7	3	6	5			9		2	27	30	57	2.0
Optic Neuritis	1	1	1			1	4	4	10	10	4	4	4	5	10		1	25	24	49	1.7
Retinitis Pigmentosa	1	2			3		8	9	6	6	5	2	2	2	3			24	19	43	1.5
Other Retinopathy							1			3	2	2	4	5	21	1	3	12	30	42	1.5
Mult. Cong. Ocular Malform	4	7	3	4	2	2	5	5	5	2							1	16	19	35	1.2
Glau. & Cat. w/Ret. Aff.							1						2	11	17			12	19	31	1.1
Cataract w/other combo.							2	2		1	3	1	3	1	17		1	5	24	29	1.0
Other Aff. of Cornea/Sclera	1	1		1	2		2	2	2	4	1	1	2	2	6			11	13	24	0.9
Detached Retina	1	1	2		2		5	3	3	2	1	1	1	1	1	2		16	7	23	0.8
Other Aff. of the Eyeball	8	4		1	2	2	2	2	2	1								13	9	22	0.8
Myopia					1		2	3	3	2	3	1	3		3			6	12	18	0.6
Corneal Dystrophy										1		1	2	2	10			4	12	16	0.6
Other Aff. of Optic Nerve	4	5					3	3	3									7	8	15	0.5
Retrolental Fibroplasia	4	4		1				3								1		4	9	13	0.5
Other Aff. Iris/Choroid	3	2				1		1	1	1	1			1	1			5	6	11	0.4
Chorioretinitis		2					1	2	2	1		2	1					4	5	9	0.3
Nystagmus			2	1	1		1				1					1		5	2	7	0.2
All Other Diagnoses					1		2	4	4		4	1	2	4	9		1	8	20	28	1.0
Unknown Diagnoses					1		4	2	4	2	1	1	2	3	1	1	7	10	19	29	1.0
Total	45	49	18	15	22	19	89	80	136	139	152	273	411	1,266	37	79	910	1,920	2,830	100.0	

DIAGNOSES - 1989 REGISTRATIONS

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>RETINA</u>			
MACULAR DEGENERATION	306	886	1,192
DIABETIC RETINOPATHY	104	169	273
RETINITIS PIGMENTOSA	24	19	43
RETROLENTAL FIBROPLASIA	4	9	13
DETACHED RETINA	16	7	23
OTHER RETINAL DEGENERATION	20	26	46
OTHER AFFECTIONS OF THE RETINA	21	33	54
<u>EYEBALL IN GENERAL</u>			
GLAUCOMA	60	100	160
MYOPIA	6	12	18
ALBINISM	9	6	15
MICROPHTHALMOS	-	-	-
HYDROPHTHALMOS	1	2	3
MULTIPLE CONGENITAL MALFORMATIONS	16	19	35
ATROPHIC GLOBE	1	-	1
ANOPHTHALMOS	1	-	1
OTHER AFFECTIONS OF THE EYEBALL	1	1	2
<u>OPTIC NERVE</u>			
OPTIC NERVE ATROPHY	27	30	57
NYSTAGMUS	5	2	7
OPTIC NEURITIS	25	24	49
OTHER AFFECTIONS OF OPTIC PATHWAY	47	42	89
OTHER AFFECTIONS OF OPTIC NERVE	7	8	15
<u>LENS</u>			
CATARACT	38	107	145
DISLOCATED LENS	1	1	2
OTHER AFFECTIONS OF THE LENS	-	-	-
<u>VITREOUS</u>			
VITREOUS HEMORRHAGE	1	-	1
OTHER AFFECTIONS OF THE VITREOUS	-	-	-

	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>
<u>CORNEA</u>			
KERITITIS	2	4	6
CORNEAL DYSTROPHY	4	12	16
KERATOCONUS	3	1	4
OTHER AFFECTIONS OF THE CORNEA	6	8	14
<u>UVEAL TRACT</u>			
CHORIORETINITIS	4	5	9
UVEITIS, IRITIS, CHOROIDITIS	1	3	4
OTHER AFFECTIONS OF THE IRIS/CHOROID	4	3	7
<u>AMBLYOPIA</u>	-	1	1
<u>MULTIPLE AFFECTIONS</u>			
GLAUCOMA AND CATARACT	13	55	68
GLAUCOMA AND RETINAL AFFECTION	22	48	70
CATARACT AND RETINAL AFFECTION	48	120	168
GLAUCOMA, CATARACT & RETINAL AFF.	12	19	31
GLAUCOMA IN ANY OTHER COMBINATION	5	12	17
CATARACT IN ANY OTHER COMBINATION	5	24	29
RETINAL AFFECTIONS IN ANY OTHER COMB.	29	77	106
ALL OTHER MULTIPLE AFFECTIONS	1	6	7
<u>SITE & TYPE OF AFFECTIONS UNKNOWN</u>	10	19	29
 TOTAL	 910	 1,920	 2,830

CLASSIFICATION BY ETIOLOGY

1989 REGISTRATIONS

DISEASES OR DISORDERS NOT ELSEWHERE CLASSIFIED	1,760	62.2%
ETIOLOGY INDEFINITE OR NOT REPORTED	801	28.3%
PRENATAL INFLUENCE NOT ELSEWHERE CLASSIFIED	176	6.2%
INJURIES/POISONINGS	43	1.5%
INFECTIOUS DISEASES	27	1.0%
NEOPLASMS	23	0.8%
TOTAL	2,830	100.0%

CLASSIFICATION BY ELIGIBILITY

DISEASES OR DISORDERS NOT ELIGIBLE CLASSIFIED

1989 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & over	Unknown	TOTALS
NUTRITIONAL DEFICIENCY					1				1
DIABETES MELLITUS			3	41	95	100	59	14	312
SENILE DEGEN., REPORTED					12	82	541	26	661
SENILE DEGEN., ASSUMED					32	97	517	11	657
CEREBROVASCULAR CONDITION	2			1	7	13	13	1	37
OTHER DISEASE OF THE CIRCULATORY SYSTEM			1		9	11	38	3	62
MULTIPLE SCLEROSIS				5	7	1		1	14
OTHER DISEASE OF THE CENTRAL NERVOUS SYSTEM	3	3		3	1			1	11
NONINFECTIOUS INFLAMMATORY DISEASE		1	1			1			3
OTHER SPECIFIED DISEASE OR DISORDER				1			1		2
TOTAL	5	4	5	51	164	305	1,169	57	1,760

ETIOLOGY INHERITANCE
OR NOT REPORTED

CLASSIFICATION BY ETIOLOGY
1989 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
UNKNOWN TO SCIENCE			1	4	14	30	120	7	176
SENILE DEGENERATION & OTHER ETIOLOGY EXCEPT DIABETES MELLITUS					18	34	306	6	364
SENILE DEGENERATION & DIABETES MELLITUS w/NO OTHER ETIOLOGY					13	25	28		66
ALL OTHER MULTIPLE ETIOLOGIES	1			3	1	1	1		7
ETIOLOGY NOT REPORTED OR ESTABLISHED	18	7	10	33	23	18	40	39	188
Total	19	7	11	40	69	108	495	52	801

PERINATAL INFLUENCE
NOT ELSEWHERE CLASSIFIED

HEREDITARY ORIGIN, OCCURRENCE IN GENETIC FAMILY REPORTED	4	1		1	1				7
HEREDITARY ORIGIN, OCCURRENCE IN GENETIC FAMILY NOT REPORTED	30	11	13	37	21	6	7	3	128
CONGENITAL ORIGIN NOT ELSEWHERE CLASSIFIED	22	6	2	7	1	1	1	1	41
Total	56	18	15	45	23	7	8	4	176

INJURIES/POISONINGS

CLASSIFICATION BY ELEMENT

1989 REGISTRATIONS

-27-

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
Recreational - Blow/fall					1				1
" - Oxygen	2	2							4
Transportation - Blow/fall									
" - Unspecified			1	3					3
Birth Process - Oxygen			1						1
Surgery/medical - "	1								1
" - Other toxic agent					1				1
Violence - Firearm				1					1
" - Blow/fall			1						1
" - Unspecified				2	2				4
Other Activity - Blow/fall					1				1
" - Foreign body in eye								1	1
" - Oxygen					1				1
" - Other toxic agent				1					1
Unspecified - Chemical burn			1	1					2
" - Firearm				1					1
" - Other explosive				1					1
" - Blow/fall				1					1
" - Foreign body in eye				1					1
" - Methyl alcohol					1				1
" - Oxygen	2								2
" - Injury/poison	1	1	1	5	3		1		12
TOTAL	6	3	5	17	10		1	1	43

VERIFICATION OF LIVELIST

INFECTIOUS DISEASES

1989 REGISTRATIONS

	0 - 6	7 - 13	14 - 22	23 - 44	45 - 64	65 - 74	75 & Over	Unknown	TOTALS
HERPES SIMPLEX			1						1
HERPES ZOSTER						1			1
RUBELLA		1	1	2					4
TOXOPLASMOSES	1			1		1	1		4
SYPHILIS	1								1
IRACHOMA					1				1
MENINGOCOCCAL INFECT.								1	1
OTHER INFECT. DISEASE	1			3	4	1		1	10
UNIDENT. INFECT. "			1			1	2		4
Total	3	1	3	6	5	4	3	2	27
NEOPLASMS									
RETINOBLASTOMA	1		1						2
PHAKOMATOSIS			1	1					2
NEOPLASM OF PITUITARY GLAND OR STALK				2		1			3
OTHER INTRACRANIAL NEOPLASM	2			5	3		1		11
OTHER NEOPLASM	2			2	1				5
Total	5		2	10	4	1	1		23

VISUAL ACUITY - 1989 REGISTRATIONS

	0-6		7-13		14-22		23-44		45-64		65-74		75-84		85+		UNK.		TOTAL	%
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
ABSOLUTE BLINDNESS	8	8	2	3	1		4	5	5	5	3	3	1	4	2	10	1	3	68	2.4
LIGHT PERCEPTION	6	7	1	2	3	4	6	3	2	3	5	5	4	9		7	3	5	75	2.6
LIGHT PROJECTION							1	1				1				2			5	0.2
LESS THAN 5/200				1	1	2	11	11	16	21	17	32	39	87	33	152	3	11	437	15.4
5/200 - 9/200			1				7	3	8		6	11	11	17	5	50	1	4	124	4.4
10/200 - 19/200	26	30	8	3	7	3	17	19	28	47	43	89	92	224	52	202	19	27	927	32.8
20/200	5	4	5	6	8	10	30	29	61	55	64	127	87	265	56	193	9	28	1,042	36.8
RESTRICTED FIELDS			1		2		13	9	16	8	14	14	18	20	11	24	1	1	152	5.4
UNKNOWN																				
	45	49	18	15	22	19	89	80	136	139	152	273	252	626	159	640	37	79	2,830	100.0
TOTAL	94		33		41		169		275		425		878		799				116	

RACE/ETHNIC DISTRIBUTION - 1989 REGISTRATIONS

<u>AGE</u>	<u>WHITE</u>	<u>BLACK</u>	<u>HISPANIC</u>	<u>ASIAN/ PAC.ISL.</u>	<u>UNKNOWN</u>	<u>AGE GROUP TOTAL</u>	<u>REPORTED MINORITY % WITHIN AGE GROUP</u>
0 - 6	29	5	5	3	52	94	31.0
7 - 13	10	1	1	1	20	33	23.0
14 - 22	13	-	4	3	21	41	35.0
23 - 44	68	7	10	5	79	169	24.4
45 - 64	139	16	7	6	107	275	17.3
65 - 74	206	16	3	2	198	425	9.3
75 - 84	481	17	1	1	378	878	3.8
85 & OVER	401	5	1	-	392	799	1.5
UNKNOWN	16	1	1	-	98	116	11.1
TOTAL	1,363	68	33	21	1,345	2,830	8.2
PERCENT	48.2	2.4	1.2	0.7	47.5	100.0	

<u>REGION</u>	<u>WHITE</u>	<u>BLACK</u>	<u>HISPANIC</u>	<u>ASIAN/ PAC.ISL.</u>	<u>UNKNOWN</u>	<u>REGIONAL TOTAL</u>	<u>REPORTED REGIONAL MINORITY PERCENTAGE</u>
I	192	8	12	2	199	413	10.2
II	181	3	1	2	139	326	3.2
III	281	5	4	7	305	602	5.4
IV	279	4	3	2	324	612	3.1
V	273	8	1	3	245	530	4.2
VI	157	40	12	5	133	347	26.6
TOTAL	1,363	68	33	21	1,345	2,830	8.2
PERCENT	48.2	2.4	1.2	0.7	47.5	100.0	



1989 REGISTER REMOVALS

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 - 6	6	7	13	1.2
7 - 13	7	4	11	1.1
14 - 22	10	4	14	1.3
23 - 44	39	26	65	6.1
45 - 64	31	35	66	6.2
65 - 74	32	60	92	8.7
75 - 84	64	106	170	16.0
85 & OVER	122	471	593	56.0
UNKNOWN	11	25	36	3.4
TOTAL	322	738	1,060	100.0

REMOVAL CAUSE

DEATH	212	442	654	61.7
OUT OF STATE	40	58	98	9.2
NOT BLIND	18	33	51	4.8
UNLOCATED	50	204	254	24.0
DUPLICATE	2	1	3	0.3
TOTAL	322	738	1,060	100.0

ACME
BOOKBINDING CO., INC.

NOV 30 1991

100 CAMBRIDGE STREET
CHARLESTOWN, MASS

